

DELHI UNIVERSITY LIBRARY

CI No. U54'14 Ac No. 29255 This book should be returned.	<i>1 1</i> 10 1 1961
	rned on or before the date last stamped
	of one anna will be charged for each day
the book is kept overtime.	
 	

WORLD in ARMS

WORLD IN ARMS

A Study in Military Geography

By

R. ERNEST DUPUY
Major, United States Army



CASSELL AND COMPANY LTD.

London, Toronto, Melbourne, and Sydney

First Published in Great Britain, 1940

Printed in Great Britain by Lowe and Brydone printers limited, London, \tilde{N} to F1239

TO MY SON TREVOR N. DUPUY, U.S.M.A. 1938 for a number of reasons well known to him

Foreword

Military geography is the study of physical geographic features in connection with definite operations. Armies—and navies too—follow the paths of least resistance to attain their designated objectives, which are, in the last resort, imposition of the national will upon the other fellow. In this world of to-day, when wars and rumours of wars fill the daily press, when obscure pinpoints of land suddenly spring into headline prominence as military or political objectives, the average reader is frequently hard put to realize the significance of such moves. Only when analyzed in the light of military geography do they become clear. For such purpose this book is written.

The study is that of an individual. Neither it nor its sources may be taken as official War Department opinion, nor necessarily that of the services at large.

In the case of belligerent countries the figures given are those available at the outbreak of war, in September, 1939, and do not, of course, show either the losses sustained since then or the additions in men, guns, planes, ships, etc., that have been or are being made.

Contents

	Page		Page
Foreword	7	Siam	•
Introduction	1 1	Siberia (U.S.S.R.)	
Europe-		Syria	
Belgium	14		09
Bulgaria	16	Africa-	
Denmark	18	Anglo-Egyptian Sudan Anglo-Egyptian Sudan	. 74
Eire (Irish Free State)	22	Egypt	74
Estonia	24	Anglo-Egyptian Sudan Egypt French North Africa	76
Finland	26	Italian East Africa	78
France	28	Libya	80
Germany	30	Spanish North Africa	76
Great Britain	22	Union of South Africa	
Greece	33	Australasia—	
Hungary	34		0.4
Italy	36	Australia	•
Jugoslavia	38	New Zealand	•
Latvia	•		84
Lithuania	•	North America—	
Mediterranean Area	40	Alaska	. 86
Netherlands	42	Canada	. 86
Norway	•	Mexico	. 88
Poland		United States (and Hawaii)	. 90
Portugal	• •	CENTRAL AMERICA	. 88
Rumania	•		. 50
Russia (U.S.S.R.)	•	Caribbean Zone—	
Spain	•	Cuba	
Sweden	•	Dominican Republic	
Switzerland	53	Haiti	, .
Turkey	54	Foreign Possessions	
Asia and Asia Minor-	,	Panama Canal Zone	, ,
		Puerto Rico	. 94
Afghanistan	-	South America—	
Arabia	•	Argentine	. 96
China		Bolivia	•
Dutch East Indies		Brazil	
French Indo-China		Chili	•
India	•	Colombia	
Iraq		Ecuador	
Japan		Paraguay	•
Malaya		Peru	
Outer Mongolia		Uruguay	
Palestine	•	Venezuela	
Persia (Iran)			,
Philippine Islands'	70	SEA LANES OF THE WORLD	. ĮOZ

Introduction

The following sketch maps show but the greater geographic features of the areas presented--canalizing the terrain, forming either barriers to or channels facilitating major military operations. On land these natural features are definite parts of the problem confronting a commander of ground troops, and to a great extent must also be considered by directors of aerial forces. On the water the sea lanes are restricted only where they pass between natural defiles. These maritime passes must be reckoned with in determining the objectives of sea power. Last but not least, on both land and sea, the art of war embraces the artificial elaboration, suppression or evasion of these natural features, to facilitate defence on the one hand, invasion on the other.

The data sheets facing each map represent in much simplification the available military force of each nation concerned. The yard-stick of presentation is that of fighting power. On land it is the division, made up of infantry, supported by field artillery and a proportion of other arms—the basic self-supporting unit of grand tactics. In the air the squadron is the fighting unit, and the bomber is the basic offensive type. On the sea the battleship is the unit of sea power—all other vessels are auxiliary to the ship of the line.

Man power alone is a most unsatisfactory and inaccurate yardstick of national fighting power, despite the fact that man is the basic element. Wars are fought by men, not by machines; a fact that civilians are prone to forget. Men run machines. But unless man be implemented with weapons he cannot wage war against other men properly armed, again a fact often skipped by those unacquainted with the military art.

Finally, wars are initiated with the implements on hand. It takes eighteen months to build one anti-aircraft battery with all its vital impedimenta. It takes nearly three

years to build one battleship. It takes no longer to build a hundred of either, given the resources, equipment and skilled workers. The point is that they cannot be produced out of a hat by waving a wand. So in estimating national armed forces one can use but a single accurate yardstick—organizations of men and material to-day trained and

prepared to fight.

The normal divisional formation in the armies of most nations to-day is triangular three regiments (or equivalent, amounting to nine battalions) of infantry, with a groupment of light artillery for direct support. Elements of horse cavalry and armoured cars, engineers, signal, medical and supply troops are also included. Divisional strengths vary slightly, with 16,000 as a mean. Exceptions to this formation to-day are Great Britain (twelve battalions of infantry organized in three brigades), the United States (twelve large battalions of infantry in four regiments—two brigades, supported by a three-regiment field artillery brigade) and Japan (with practically the same infantry strength as the U.S. and slightly less artillery strength). The United States is to-day experimenting with a three infantry regiment division supported by a field artillery groupment, but in fact its normal war strength formation is still its World War division, some 25,000 officers and men.

All manoeuverable fighting formations on land, air and sea—are compromises between two diametrically opposed forces, fire-power and mobility, with each nation working out its own concept of compromise."

Bombing Time-Range Tables.

The burning question to-day, as eyes and ears are strained for the droning death from the air, is "How soon can they reach us?" The bombing time-range tables herein included give the answer. Distances are taken

from nearest known air base in territory of potential attacker. Calculations are made at the rate of 250 m.p.h., a reasonable speed for modern bombers, and time is taken to the nearest whole minute. The objective is to give the reader a comprehensive idea of the air vulnerability of the capital city and a few key points in each nation considered. It should be remembered that for mass aerial movements air units take off from one or more dromes at such time as to rendezvous over some given point, then proceed on mission.

Air Line Bombing Radius:

500 miles, normal.
500—1000 miles, abnormal but possible in exceptional circumstances.

Radius of action for each type of fighting ship is calculated by halving the normal extreme cruising range with full load, less an appreciable fuel-consumption time allowance for necessary manoeuvering. Military airplanes are valuable material, not to be squandered for trivial reasons. They are, therefore, normally sent only on missions from which—hostile attack and destruction always excepted—they may be expected to return.

The Spanish civil war has shown the tactical value of shuttling between two different bases, as opposed to a round-trip mission from any one base. This must be taken into account in any European war where allied nations might well be expected under certain conditions to shuttle their long-distance bomber missions between their respective bases, thus increasing if necessary their bombing radius of action at the same time decreasing the number of air-hours of operation and the fuel consumption; important factors.

Average Modern Air Speeds.

Anti-aircraft Warning Intelligence Nets.

Each nation has some machinery set up—including both regulars and home-guard units—to provide the necessary warning of approach of enemy aircraft. These systems are in addition to the normal reconnaissance and range-finding elements of anti-aircraft artillery and provide an essential link in the functioning of the air army, the anti-aircraft artillery, and the air raid precaution units organized to fight fire, gas and demolition.

World in Arms.

This book does not pretend to take the place of an atlas, which is indispensable for further detailed study.

In weighing the possibilities of attack upon any given nation the following basic considerations should be taken into account:

a. Nation menaced.

- (1) Characteristics of physical geography favouring or impeding invasion
 - (2) Defensive resources.

b. Menacing nation.

- (1) Possibilities favouring an air thrust.
- (2) Ground troops (and navy, where pertinent), available for (a) invasion; and (b) protection of own vital terrain against counter-attack by air, land and sea.

Wars, in the last resort, are won by ground troops physically occupying terrain, assisted by sea power (where pertinent). The air arm, indispensable in modern operations, is but one member of the combat team.

*The leading fighter types at present in use by Britain, France and Germany—Spitfire, Curtiss, and Messerschmitt—operate at higher average speeds, approximately 350 m.p.h.

Key to Symbols

\boxtimes		Division-tactical mobile fighting unit of all arms			
	~	Cavalry Division			
Army	∕	Artillery Unit			
	<u></u>	Antiaircraft Artillery Unit			
	إسب	Fortress Troops			
	4	Mechanized Division			
	*	1st Class Fortress			
		Fortified Zone			
Geographical		Fortified Zone under construction			
—		Primary Route of Invasion			
	\Diamond	Secondary Route of Invasion			
		Squadron (B)-Bomber			
Air	5	(F)-Fighter-pursuit and attack			
	5	(O)—Obsntraining, transport			
الأنتخ	line.	Battleship			
20 1	77	Heavy Cruiser			
Navy =	بما ما	Light Cruiser			
		Submarine			
		Plane Carrier			
-	<i>h</i>	Destroyer			



BOMBING TIME-RANGE TABLE

Belgium is open to aerial attack from Germany, France, England, Netherlands and carrier-based aviation on the North Se

	Approximate				
To	From	Mileage	Elapsed Time		
Brussels	Cologne (Ger)	110	27 min		
	Folkestone	135	33 min		
	Bergen o/z (Neth)	45	11 min		
	Lille (Fr)	60	15 ສາເຄ		
Antwerp	Cologne (Ger)	110	27 min		
Liege	Cologne (Ger)	65	17 min		
Namur .	Cologne (Ger) .	95	23 min		

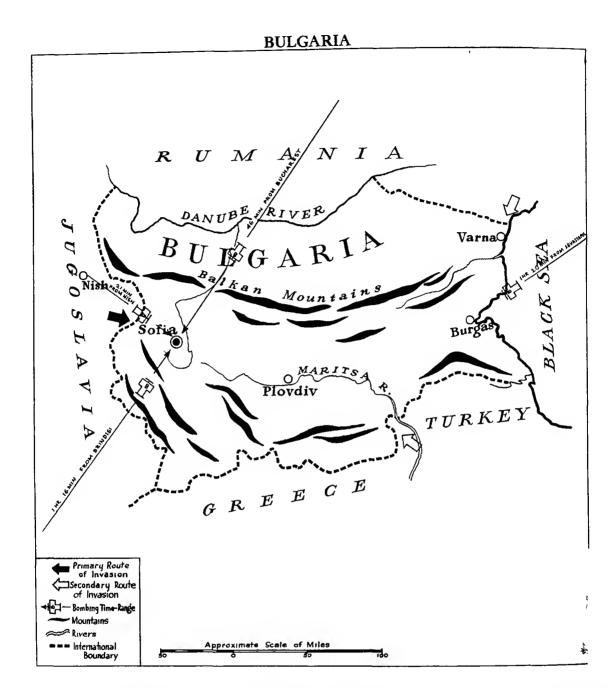
Belgium

Army is under Ministry of National Defense; air force is an integral part of Army.

Theory of combat—Initial defense of neutrality, by covering force, awaiting reinforcement of her guarantors against aggressor.

ARMY (Conscript with professional cadres)		
a. Regular Army		
The nation is divided into four zones.		
6 Divisions	120,000	
2 Cavalry Divisions	10,000	
Fortress Troops (artillery, infantry, engineers, frontier guards, etc.)	25,000	
1 Brigade Army artillery	5,000	
2 Regiments	2,000	
Gendarmerie	6,000	

Air Force. Squadrons			
	1 Bomber (light)		
5	6 Fighter	400 ships, a	all classes
5	5 Reconnaisance	j	
Personnel- battalion	—(in 6 regiments a	and 3 separate	
	Military Pilots	400	
(Other ranks	3,000	
			3,400
Total war	strength of above	. mobilizable bv	
M+8	days		171, 40 0
Note-at	peace strength th	ne above units,	
ske. b. <i>Reser</i>	letonized, exist at (total strength of	66,000
	aard antiaircraft wa	rning force (stre	ngth un-
known).			_
Total pote	ntial trained manp	ower	790,000



BOMBING TIME RANGE TABLE

Bulgaria is open to aerial attack from the other Balkan states, Turkey, Russia, Hungary and Italy, and from carrier-based avilly tion on the Black and Aegean Seas

To	A, From	pproximate Mileage	Elapsed Time
Sofia	Nish (Jugsl)	85	21 min
	Bucharest (Rum)	190	46 min
	Salonika (Gr.)	145	34 min
	Adrianople (T)	170	44 min
	Szeged (Hun)	290	1 hr 10 min
	Brindisi (It)	315	1 hr 16 mu n.
Burgas	Sevastopol (Rus)	330	1 hr 20 min.

Bulgaria

Army is now in process of reorganization.

ARMY (Conscript with professional cadres)

 \boxtimes

10 Divisions

 \sim

11 Regiments

Նու

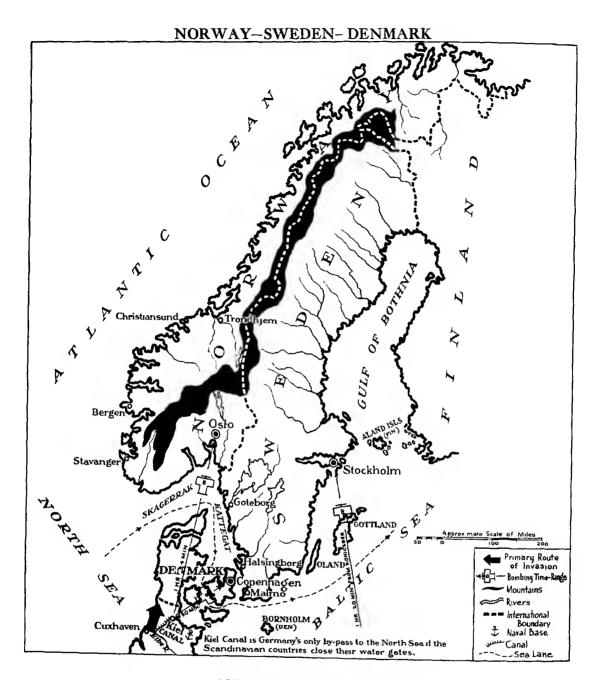
Fortress Troops

War Strength 120,000 Peace Strength 33,000 NAVY (Entirely negligible)

AIR ARMY

Plans extant for reorganization and strengthening, but at present negligible.

All types 70 ships



BOMBING TIME RANGE TABLE

Denmark is open to aerial attack from the other Scandinavian countries, from Germany, Netherlands, Belgium, Great Britain and from carrier based aviation on North and Baltic Seas

To	From A	Mileage Pproximate	Elapsed Ti	me
Copenhagen	Kiel (Ger) Malmo (Swed)	135	32 m	
	Lowestoft (Br)	25	06 m	
	Lowestort (Br)	490	1 hr 58 m	
	Haarlem (Neth)	400	1 hr 36 m	ın
	Ostend (Bel)	500	2 hr 00 m	ın
	Libau (Lat)	400	1 hr 36 m	ın
F 1 .	_ (approx	, over water)		
Esbj aerg	Dunquerque (Fr)	400	1 hr 36 m	מנו

Scandinavia

The three nations—Denmark, Sweden and Norway—are allied in a loose linked mutual defense pact, basis of which is neutrality towards the rest of Europe Denmark, however, is dominated by adjacent Germany and may easily be overrun by her neighbor Unless Denmark be actively drawn into the Rome Berlin axis, the

Scandinavian nations hold the key to the Baltic Sea, entrance to which can only be effected through the Skagerrak and Kattegat (except for the Kiel Canal, in German territory) A German controlled Denmark means instead that Germany controls the entrance to the Baltic

Denmark

Army and Navy are separate entities, with Air Force a part of the Army

ARMY (National militia, with permanent cadres)

3 Divisions

7-7

Fortress Troops
War Strength
Peace Strength
Air Force Entirely negligible (approx 90 ships in all)

NAVY

 Coast defense battleships (antiquated)

- Train

1 Cruiser minelayer

20 Torpedo boats

12 Submarines

Norway

Army, Navy and Air Army are consolidated under a single Department of Defense The defense forces are today being increased

ARMY (National militia, with permanent cadres)



9 Brigades



1 Battalion



Fortress Troops

War Strength 90,000 Peace Strength 30,000 NAVY

- No line

4 Coast defense battleships

- M

8 Destroyers

1

9 Submarines

Smaller Craft

Note—What there is of the Norwegian navy is a highseas flotilla

AIR ARMY

5

All classes

100 ships

BOMBING TIME RANGE TABLE

Norway is open to aerial attack from Germany, Great Britain, the other Scandinavian countries, the Baltic countries and from carrier based aviation on the North Sea and Atlantic Ocean

		pproximate			
$T_{\mathcal{O}}$	From	Mileage	1	Elaps	sed Time
Oslo	Kiel (Ger)	390	1	Ьr	34 min
	Helsingfors (Fin		2	hr	00 min
	Gotesborg (Swed) 155			38 min
Bergen	. Peterhead (Br)	. 320	1	hr.	17 mm.

Sweden

The most powerful of the three Scandinavian countries. Army, Navy and Air Army are separate entities, under Ministry of National Defense.

ARMY (National militia, with permanent cadres)

4 Divisions



1 Brigade (approx.) of motorized and partly mechanized units

Fortress troops

War Strength 885,000 Peace Strength 35,000 NAVY

-nin in-

3 Coast defense battleships (pre-war vintage, but entirely reconditioned), and 5 old coast defense ships

2 Light cruisers (1 cruiser-seaplane carrier, and 1 old armored cruiser)

16 Destroyers



16 Submarines



1 Aircraft tender and several other small vessels



Coast Defense artillery, under Navy

AIR ARMY



All classes (including a large proportion of flying boats) .. 250 ships

Gotland is air base. Note its strategic position dominating the Baltic Sea.

BOMBING TIME-RANGE TABLE

Sweden is open to aerial attack from other Scandinavian nations, the Baltic nations, Russia, Germany, and carrier-based aviation on the North and Baltic Seas.

		Approxima	te	
To	From	Mileage	Elabsed 1	Ime
Stockholm	. Helsingfors (Fin.) Libau (Lat.) Konigsberg (Ger.)	250	1 hr. 00	mın. min.
Gotland Halsingbor	Kolberg (Ger.) g Kiel (Ger.)	250	1 he 00	:-

British Empire

See also: - Canada, Australia and New Zealand, India, Irish Free State, Union of South Africa, Egypt.

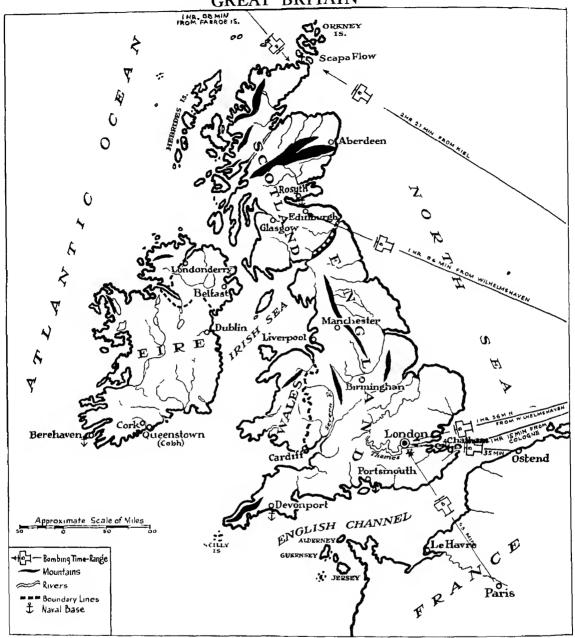
Great Britain

Army, Navy and Air Army are separate entities, codefense force is prepared for mobilization on M-Day, with imordinated by the Ministry for Coordination of Defense. Theory of combat: Initial defense followed by mediate incorporation in Regucounter-blow. lar army, q. v.) ARMY 215,000 Total Territorial Army (less A. A.) a. Regular Army (Pre-war). (Note—The above figures represent the strength of the Regular and Territornal armies before conscription, and before the declaration of war. Details of the exact number of men 5 Divisions (war strength 100,000 at present in reduced strength) 73,000 called to the colours is not available, and in any case is constantly changing.) Cavalry-No cavalry divisions (1 cavalry regiment is a component NAVY of each regular division) (Includes all fighting ships of the Empire) 1 Mobile (partly mechanized) Di-Modern ships in commission or nearing completion; vision and 1 Mechanized Brigade vessels projected or just laid down are not counted. 12,000 15 Battleships (includes 3 hattle-Fortress and Coast Defense troops cruisers not rated as able to lie in (including artillery, engineers, the line) 15,000 Antiaircraft Artillery (75,000) 17 Heavy Cruisers (Mainly from Territorial Army 75,000 42 Light Cruisers Total Regular Army (excluding 158 Destroyers British Army in India q. v., and overseas garrisons) 175,000 54 Submarines 10 Cooperative Squadrons (attached from Air Army, q. v.) 6 Plane Carriers (and 1 airplane tender) Personnel .. Active Reserve b. Territorial Army Total Great Britain ... 115,000 60,000 175,000 The Territorial Army has been entirely reorganized, Australia following a period when most of its existing units had 4,200 5,000 9,200 New Zealand ... 1,200 1,200 been transferred into antiaircraft artillery-antiaircraft 950 1,200 2,150 Canada defense is a responsibility of the Army. India 1,500 1,500 12 Divisions (of which 3 are mo-121,650 67,400 189,050 Total torized) 200,000 Fleet Air Arm 2 Cavalry Brigades Carrier-based and patrol planes 5,000 (flying boats) attached from 2 Mechanized Divisions 10,000 Air Army q. v., but under naval command. (All classes) 450 ships 5 Divisions (mobile and fixed antiaircraft defense; the home AIR ARMY country being divided into five (Royal Air Force) Organized in 240 squadrons, now in process of reareas:organization (no better data available) 1st, London (includes 5 balloon barrage squadrons) (70,000)Bombers 2d, Eastern-Northern (included in 3d, Scotland Regular Combat 2,100 ships 4th, Western Army 5th, Southern tabulation) Reconnaissance (including trans-(Note-this Territorial antiaircraft 400 ships port, etc.)

(Continued on page 23)

Total first line operating ships 3,300 ships





BOMBING TIME RANGE TABLE

Fingland, Scotland and Ireland are open to aerial attack from Germany, France, Belgium, Holland, the Scandinavian countries, the Factor Islands and Iceland, and by flying boat or carrier based planes in the North Sea. The danger is increased by the possibility of flying boat and submarine bases being established on the west coast of the Irish Free State or in the Hebrides, facilitating shuttle operations to a limited extent.

		Approximate					Abbroximal	le	
To	From	Mileige	Elapsed Time	To	From	,	`Mileage	7	ime
London	Wilhelmshaven (Ger.) Cologne (Ger.)	310	1 hr 28 min 1 hr 15 min	Dingle (s w	B a y coast				
Scapa Flow	Kicl (Ger) Fieroe Isl (Den)	610 270	2 hrs 27 min 1 hr 05 min	of Irish State)	Free Kiel (Ger)	850 *	3 hrs	24 min
Edinburgh Liverpool	Wilhelmshaven (Ger) Wilhelmshaven (Ger)		1 hr 56 min 1 hr 48 min			Reinforcing	flight time		
	Cologne (Ger)	450	1 hr 48 min	London	Parts	(Fr)	220		53 m.n.
Long run	ge flying boats		22						

Great Britain (Continued)

Reserve—all types, including planes more than 3 years old, many obsolescent	3,800 ships
Total operating ships	7,100 ships

Note—the Royal Air Force figures above include cooperative squadrons with Army, the Fleet Air Arm, and 7 overseas commands—Middle East, Iraq, Aden, Palestine and Transjordania, India, Far East and Mediterranean.

Personnel	
Military Pilots	5,000
Other ranks .	
Total	88 000

(Note—The figures given both of machines and personnel represent pre-war strength. The figures of both are constantly changing and enormously increased.)

Eire

Irish Free State

Eire is an element in the British Commonwealth of Nations. Its military forces are volunteer, and it is not included in Great Britain's present conscription act, although Northern Ireland is.

ARMY

a. Permanent Force

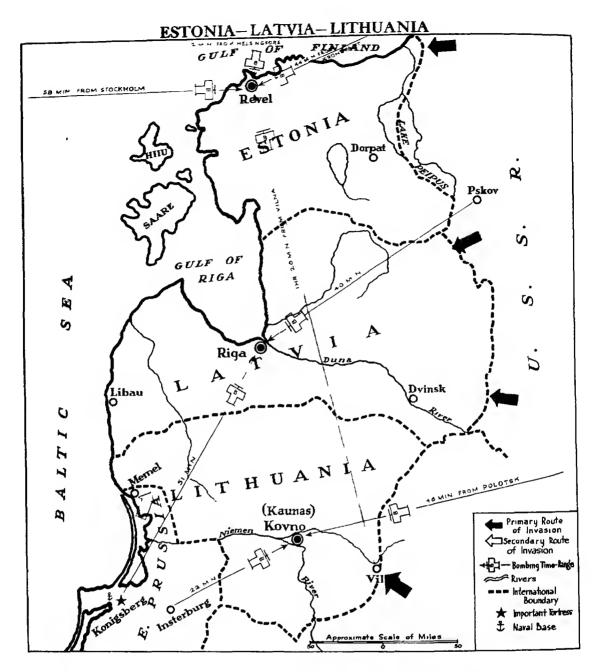
\boxtimes	1 Regiment)
70	1 Field Artillery Brigade	4
16	1 Antiaircraft Arty. Brigade	7,000
5	1 Cooperative Squadron, 16 ships	

5 Cavalry Squadrons (incl. 2 armored car and one cyclist) ...

Note—This is entirely inadequate for defense against any major opponent of Great Britain when Ireland's coasts might furnish potential advance submarine and air bases for hostile operations.

37,000

Total strength



BOMBING TIME RANGE TABLE

Lithuania is open to aerial attack from other Baltic nations, Russia, Sweden. Denmark, Germany and Poland, and from carrier based aviation on the Baltic Sea

To	From	Mileage Approximate	Elapsed Time
Kaunas	Polotsk (Rus)	190	46 min
	Insterberg (Ger)	90	22 min

BOMBING TIME RANGE TABLE

Latvia is open to aerial attack from Russia, Poland, Sweden, other Baltic nations, Germany and from carrier-based aviation on the Baltic Sea

To	From	Approximate Mileage	Elapsed Time
Riga	Konigsberg (Gei Pskov (Rus)	r) 210 165	51 min 40 mm
Libau	Konigsberg (Gei Gotland (Swed Memel (Ger)		 29 min. 29 min. 15 min.

Lithuania

Army and Air Force are under one command. There is no Navy.

ARMY (Defensive force only-conscript)

3 Divisions



1 Brigade



1 Armored car and tank det.

Fortress troops

1 Armored train

War Strength 100,000 Peace Strength

AIR FORCE

Squadrons-

6 All types 80 ships Antiaircraft defense is a responsibility of the Air Force.

Latvia

Army, Navy and Air Force under single head. Note that a treaty of mutual defense exists between Latvia and Estonia.

ARMY (Conscript)

a. Regular Army.



4 Divisions

1 Regiment

Fortress troops

1 Armored train (Note-Riga-Dvinsk railway line is of Russian gauge.) 40,000 War Strength Peace Strength 20,000

National Militia

25,000

NAVY (Negligible)



2 Submarines

Flotilla of gunboats and launches

AIR FORCE

All types 100 ships

Estonia

Army, Navy and Air Force are under single command. Note that a treaty of mutual defense exists between Estonia and Latvia.

ARMY (National militia)



3 Divisions

1 Regiment



1 Armored car and tank det.

Fortress troops

2 Armored trains

War Strength 50,000 Peace Strength 20,000

NAVY (Negligible)



2 Submarines

Flotilla of fast motor-torpedo launches

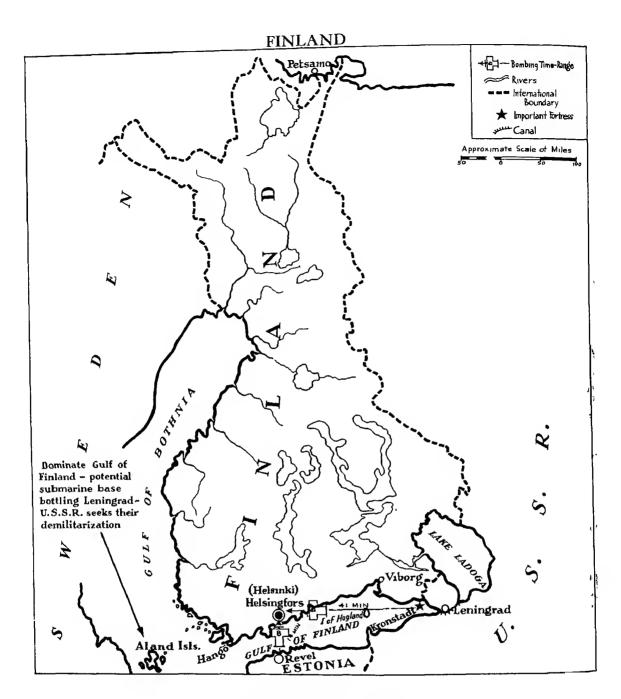
AIR FORCE (Negligible)

All types 100 ships (approx.)

BOMBING TIME-RANGE TABLE

Estonia is open to aerial attack from Russia, other Baltic nations, Sweden, Germany, Poland and from carrier-based aviation on the Baltic Sea

Tσ	From	Approximate Mileage	Elapsed Time
Reval .	Kronstadt (Rus) Helsingfors (Pin.) Konigsberg (Ger.) Vilna (Lit) Stockholm (Swed)	3301 3601	14 min. hr. 27 min. hr. 20 min.



BOMBING TIME RANGE TABLE

Finland is open to aerial attack from Sweden, the other Baltic nations, Germany, Russia and from carrier based aviation on the Baltic Sea

To	Approximate From Mileage	Elapsed Time
Helsingfors	Stockholm (Swed) 240 Konigsberg (Ger) 410 Kronstadt (Rus) 170 Reval (Est) 55	58 min 1 hr 39 min 41 min 14 min

Note—Finland's barren tundra to the north and extensive lake area offer tremendous obstacles to invasion by land

Finland

Army, Navy and Air Force under single head.

ARMY (National militia, defensive only)

 \boxtimes

3 Divisions

 \gtrsim

1 Brigade



1 Tank Co.

War Strength	125,000
Peace Strength	25,000

NAVY



2 Coast defense battleships



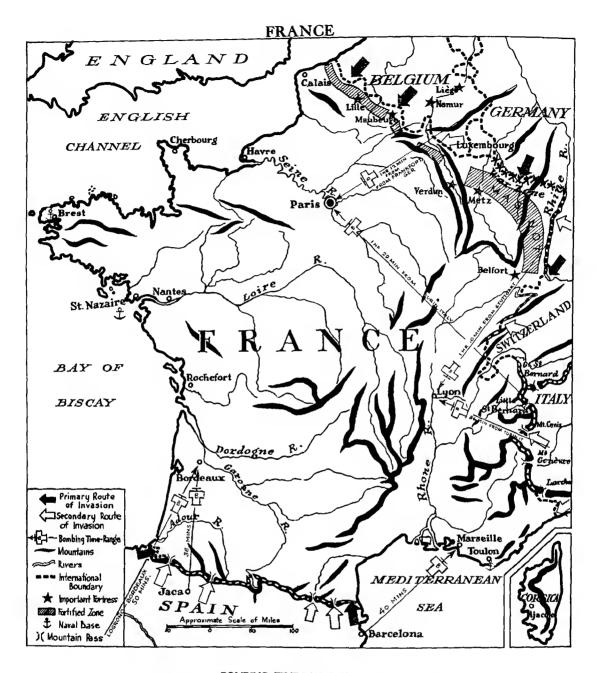
5 Submarines

Flotilla of small vessels

AIR FORCE



Note—The Aland islands, at the mouth of the Gulf of Bothnia. Formerly demilitarized by treaty, they remain under Finnish jurisdiction. As submarine and seaplane bases they block the Gulf of Finland and the sea lane to Kronstadt and Leningrad. In October, 1939, the U.S.S.R. made the claim that the control of the islands and Hango was vital to their defense and began negotiations with Finland for the right to establish bases there.



BOMBING TIME-RANGE TABLE

France is open to aerial attack from British, German, Italian and Spanish soil.

To		Approximate Mileage	
Paris	.Frankfort A/M (G	er). 300.	1 hr 12 min.
	Turin (It.)	370	1 hr. 29 min
Lyons	Stuttgart (Ger.)	290	1 hr. 10 min.
	Turin (It)	150 .	· 36 min
Marseilles	Cagliari (It)	350	1 hr 24 min
	Barcelona .	193	48 min
	Stuttgart (Ger.) .	420	1 hr. 41 min
	Innsbruck (Ger.)	400	1 hr. 36 min

* probable only if attacker could shuttle: landing on Spanish soil for re-fueling.

To	From	Approximate Mileape	Time
	1.000	2,7,700,0	20 min
Bordeaux	Jaca (Spain)	160	20 111111
	*Stuttgart (Ger)	. 550	2 hr. 12 min.
	*Cagliari (It) .	640	2 hr. 34 min.
Toulon	Spezia (It)	. 210	51 mm.
Havre	Coblenz (Ger.)	340	1 hr. 22 min.
Brest .	Santander (Spain)	360	1 hr. 27 min.
Assist T	ransport Tune—for rais	of occuments and	supply. From

Aerial Transport Time—for reinforcements and supply. From England—within one hour to any reasonable objective. From North Africa—within five hours.

(Transport planes average 100 m.p.h.)

France

Army, Navy and Air Army are separate entities, coordinated by the Minister of National Defense (Minister of War) and a Supreme Council of National Defense.

Theory of combat: Initial defense followed by counter-attack.

ARMY

The nation including North Africa is divided into 21 regions (corps areas).

a. Metropolitan Army (professional and conscript, permanent establishment available for immediate use in France, including North Africa, and Colonial Army units garrisoned in France)—

units garrisoned in France)—	
30 Divisions	
4 Cavalry Divisions	400,000
3 Mobile (partly mechanized) Divisions	
Fortress Troops (infantry, artillery, antiaircraft, engineers, etc	180,000
30 Cooperative squadrons (attached from Air Army q. v.)	
Gendarmerie and Garde Mobile—part of Metropolitan Army, normally available only for general and military police duty, not for combat	50,000
Total Regular Establishment	630,000
 b. Reserves (organized and mobilizable within 60 days) — 	
K 2	
21 Divisions'	
50 Artillery Regiments (all types, for Corps and Army general reserve)	500,000

c. Colonial Army (distributed in overseas possessions—excluding North Africa, and also colonial units now garrisoned in continental France)—

War Strength, Metropolitan

Army 1,130,000

5 Divisions and 1 Brigade 70,000

- d. Colonial Reserves—Potential reserve strength of France's great African empire is tremendous. Its availability in Europe, however, is dependent upon (1) availability of time for training and (2) possession of sea and air lanes.
- e. Global potential trained man power of France is 6,000,000.

This figure is entirely theoretical, and should not be used in calculating any immediately available fighting power.

NAVY

Modern ships in commission and nearing completion—vessels projected or just laid down are not counted, since they cannot be considered as available.

min in-	8 Battleships	
- Poplar	7 Heavy Cruisers	
حالالد	11 Light Cruisers	
= /st. ==	63 Destroyers	
	80 Submarines	
	1 Plane Carrier	
5	25 Cooperative squadrons from Air army, q. v.)	(attached
	Personnel— Active	73,683′ 44,250
	Total	117,933

AIR ARMY

The nation is divided into five air regions.

Total active squadrons are 245, of which 190 are directly incorporated in Air Army tactical units (similar to our GHQ Air Force), and 55 attached to Army and Navy as cooperative squadrons.

Squadrons—

70 Bomber (light and heavy)	770 ships
60 Fighter (attack and pursuit)	1,200 ships
60 Reconnaissance (transport, and general service included)	730 ships
Total first line operating ships (of which 1,500 are of latest types)	2,700 ships
Reserve planes (all types, mainly obsolescent), approximately	1,000 ships
Grand Total	3,700 ships

5 Regiments Antiaircraft Artillery (part of Army q. v., but attached to Air Army, which is responsible for antiaircraft defense).



BOMBING TIME-RANGE TABLE

Germany is open to aerial attack from France, Great Britain, Belgium, Netherlands, the Scandinavian countries, the Baltic countries, Poland, Rumania, the Balkan countries and Russia.

		Approximate	_
To	From	Mileage I	Elapsed Time
Berlin	Nancy (Fr) .	430	1 hr. 43 min
		via	
Kiel	Boulogne S/M (Fr)		I hr 42 min
	English Coast . Carrier (Fr or Br)	. 400	1, hr 36 mm
Koenigs-	off Dogger Bank	max 280 dist	1 hr. 05 mm.
berg	.Shavli (Lith)	150	36 min.
	Grodno (Rus.)	. 150	36 min.

T_{O}	From	Approxi Mileag	mate e l	Elapsed Time
Wilhelm- shaven Er	iglish Coast	300	via water	1 hr. 12 min.
Essen (Krupp	etz (Fr)	170		41 min.
Munich Be Vienna Za	lfort (Fr) greb (Jugosl) u ₁ (Rum)	. 225 170 . 360		54 min. 41 min. 1 hr 27 min.

Note—all north coast of Germany is in extreme short range of carrier-based aviation operating in the North Sea. Note also that given Poland or Rumania as one of several adversaries, shuttling operations may be expected.

Germany

Army, Navy and Air Army are separate entities, controlled by the Führer, assisted by a four-section staff.

(1) The Führer's General Staff, (2) Administration,

(3) National Defense and (4) Military Economy.

Theory of combat: Seemingly committed to the hammer blow to crush hostile resistance ab initio. Germany is not economically geared for a long-drawn-out conflict.

ARMY

The nation is divided into six Army Groupings, providing sixteen known corps. To date the Webrmacht (national army) has been built up by a progressive increase of cadres in each unit, the excess being sluffed off to provide nucleus for another new unit. To what future strength it can be pyramided depends entirely upon the national ability to train officer and non-commissioned officer personnel

a. Regular Army (Conscript with professional cadres).

45 Divisions (including 4 motorized, 2 mountain)	630,000
I Cavalry Brigade (no cavalry di- visional formations; each regular division includes a horsed recon-	
naissance squadron)	2,000
6 Mechanized (Panzer) Divisions	
(three organized in part only).	44,000
Fortress Troops (artillery, infantry, antiaircraft (see Air Army),	
engineers, etc)	80,000
Total Regular establishment	756,000
10 Squadrons' (cooperative, see Air Army).	

45 Divisions (Estimated only, considered excessive).20 Landwehr Brigades (personnel

It does not seem probable that the above cadres are actually formed except for the Landwehn brigades, although within two more years it may be possible. Germany has a potential trained and semi-trained manpower—trained officers only are lacking; it may be concluded that a major portion of her potential reserves would be restricted at present to reinforcement and replacement in existing units, and for use as labor troops and in the highly organized industrial mobilization actually functioning today.

from S. S.).

b. Reserves.

c. Home guard troops (probably included in the Landwehr brigades mentioned above) are:

Feldjäger Corps (from S. A.).
Bahnschütz (railway guards) (from S. S.).

No accurate strength returns of the above or of other semi-military units are available. These elements constitute a highly organized machine for all home-guard surveillance and general mobilization duties, but are not first-line combat troops.

Total potential reserve strength (estimate) presumably now mobilized ... 2,250,000

Note—Elements detailed above include former Austrian Army; man-power from Czechoslovakia cannot be counted on at this time; material of the former Czech Army is, however, available.

NAVY

Modern ships in commission and nearing completion —vessels projected or just laid down are not counted.

<u> </u>	5 Heavy Cruisers (includes the 3 so-called "pocket battleships")			
	43 Destroyers			
	59 Submarines			
	2 Plane Carriers			
	Personnel— Active			
	Total 70,000			
7	18 Cooperative Squadrons (attached from Air Army, q. v.) Heavy Bombers (include flying boats)			
AIR ARMY				
Squadrons				
96 Bo	omber (Heavy) 1,000 ships			
30 Bomber (Light) 360 ships				
1,296 ships				
30 Reconnaissance 400 ships				
Total first line operating ships 3,056 ships				
Reserve, planes—				
1st Line (100% replacements, less than three years old) 3,056 ships				

(Continued on next page)

Germany (Continued)

Total operating ships 8,612 ships Personnel— Military Pilots (estimated) 10,000	Antiaircraft Artillery 34 Mobile Regiments
Other ranks	28 Air Depot units

Greece

Army, Navy and Arr Army are separate entities. The Greek forces cannot, however, be rated as first-class fighting elements. Equipment is poor, units are cadres only.

ARMY (Conscript with professional cadres)

 \boxtimes

13 Divisions

 \approx

2 Cavalry Divisions

Jores

Fortress Troops

 War Strength
 120,000

 Peace Strength
 33,000

NAVY (Negligible)

1 Armored Cruiser (old)

1 Cruiser-mine-layer (old)

12 Destroyers

6 Submarines

Several Torpedo Boats and other smaller craft, all old

AIR ARMY (Negligible)

All classes (including flying boats) 100 ships

GREECE ULGARIA JUGOSLAVIA ALBANIA THASOS SAMOTHRAKI LEMNOS LESBO Primary Route of invasion Secondary Route of Invasion Bombing Time-Range **Mountains** Rivers SEA MEDITERRANEAN -- International Boundary) (Mountain Ross Approximete Scale of Miles

BOMBING TIME-RANGE TABLE

Greece is open to aerial attack from Italy, Jugoslavia, Turkey, Bulgaria and from carrier-based aviation on the Mediterranean, Adriatic and Aegean Seas.

Τø	From	Approximate Mileage	Elapsed Time
Athens			1 hr. 26 min 1 hr. 32 min.
Salonika	Leros (It)Brindisi (It)	190	



Hungary is open	To	From	Mileag Approxim	e l iate	Elapsed Time
	Budapest .	.Krakow (Ger.). Kluj (Rum.) Bar (Rus.) Trieste (It) Vienna (Ger.).	210		51 min. 1 hr. 38 min. 1 hr. 10 min.

Hungary

ARMY

 \boxtimes

7 Divisions



1 Cavalry Division

It will be noted that at best these units will be undermanned. Hungary's war machine is now in process of reorganization. An available total of approximately 600,000 men will probably be taken, at least in part, into a mobilization plan, but it is doubtful if any force larger than its existing one can be armed and equipped without outside aid.

Air Force-component of Army, at present negligible.

NAVY

Danube River flotilla, consisting of 6 gunboats and several armed launches—negligible.

ITALY



BOMBING TIME RANGE TABLES

Italy is open to aerial attack from France, North Africa, Spain, Jugoslavia, Rumania, the Balkan nations, Turkey, Egypt and the French and British Levant, as well as from carrier-based aviation in the Mediterranean.

To	From	-Ap	proxima. Mileuge	le	Elap	ed	Time
RomeAjaccio			200			48	mın
Bizerta					hr.		
, Malta (Br)		450	I	hr	48	mın.
MilanLyons (Fr.) .		210 .			51	min
Zagreb	(Jugosi)	٠.	330	1	hr.	20	min
Milan Friederich	shaven (Ger	.) 150			35	min.
TurinLyons (
SpeziaToulon	(Fr).		210			51	min
TarantoBizerta	(Fr.)		460	I	hr.	51	min.
TriesteToulon	(Fr.) .		430	1	hr.	44	min.

To	From	Approximate Mileage	Time
Panteller Leros	Malta (Br.)Bızerta Bızerta Malta (Br.) Cyprus (Br.) Ajaccio (Fr.)	140 120 150 4101 h	36 min. r. 39 min.

Note—The entire Po Valley and heavily industrialized area of Northern Italy is within easy bombing range from France. Italy is also susceptible to shuttling operations should her adversaries include nations east of the Adriatic.

Italy

Army, Navy and Air Army are separate entities, coordinated by a Supreme Council of National Defense.

Theory of combat: War of movement, with lightning stroke, stressed. Man is the final factor, aided by the machine. The struggle ends only when the enemy is defeated and vital areas of his country are actually occupied or threatened with occupation. Cooperation—with principle that command in battle is exercised by proper employment of reserves—is also stressed.

ARMY

The nation is divided into four Army groupings furnishing 15 corps

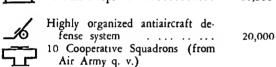
a. Regular (Metropolitan) army.

\times	37 Divisions (includivisions)	udes 7	mountain -
\sim	No Cavalry divisio	ns (cav	alry units

No Cavalry divisions (cavalry units form part of each regular division.)

500,000

lieri) 40,000
Fortress troops 60,000



Total Regular Army 620,000

Note—Albanian and Dodekanese garrisons are included in above.

b. Reserves.

Fascisti militia 500,000 (mobilizable in 7 days —territorial home guard—not first line combat troops) ...

Other trained reserves (including carabin-

eri) 330,000

830,000

Total mobilizable strength. 1,450,000

Note—Partial mobilization ensures at present time that all regular units are at war strength. Experimental 2-regiment divisions are said to be in formation.

c. Colonial army.

NAVY

Modern ships in commission or nearing completion. Vessels just laid down or projected are not counted.

Vessels just laid	down or projected are not counted.
-mi Mrz.	4 Battleships
- Prole	7 Heavy Cruisers
حتلعات	15 Light Cruisers
- M	62 Destroyers
	87 Submarines
	Plane Carriers—None. 1 aircraft tend- er for flying boats (patrol planes)

er for flying boats (patrol planes)

Mosquito fleet — so-called "suicide

Aosquito fleet — so-called "suicide boats," fast aquaplanes carrying one torpedo. Number unknown.

26 Cooperative squadrons attached from Air Army q.v	180 ships
Personnel—	0
7	•

Note—Construction of Italian vessels indicates that for the most part they are not intended for longrange cruising. In other words, the Italian Navy is particularly constructed for Mediterranean work.

AIR ARMY

Squadrons

•		
80 Bomber (light and heavy—includes 34 squadrons of flying boats, 340 ships)	800	ships
70 Fighter (attack and pursuit)	960	ships .
30 Reconnaissance	400	ships
Total first line operating ships	2,160	ships
Reserve		
All classes (60% replacement) (including obsolescent)	1,800	ships
Total operating ships	3,960	ships
Personnel		
Military pilots 8,0	00	

Note- The high percentage of patrol planes (flying boats), indicates Italian intention of taking advantage of Mediterranean island bases.



Jugoslovia is open to aerial attack from Italy, Germany, Hungary, the other Balkan states and from carrier-based aviation in the Adriatic Sea.

_		Approximate	
Tο	From		Elapsed Time
Belgrade	Trieste (It.)	330	1 hr. 20 min.
	ozeged (Hun.)	105	26 min.
	Klaj (Rum)	200	48 min
Zagreb	frieste lt)	105	26 min.
	Graz (Ger.)	95	23 min.

Jugoslavia

Army and Navy are combined under a Ministry of Naval Air Force, q. v.)— Army and Marine. The nation is divided into five Military Pilots 1,600 Other Ranks 7,000 military regions. ARMY (Conscript with professional cadres) Total 8,600 a. Regular Army. NAVY a. Adriatic Flotilla. 17 Divisions 1 Light Cruiser (and one old cruiser) 2 Cavalry Divisions 3 Destroyers (and 8 Torpedo Boats) Fortress Troops (including antiaircraft) <u>-1</u>-4 Submarines 100 Tanks Peace Strength 148,000 Other smaller vessels, including mine-War Strength M + 10 days 350,000 b. Danube Flotilla. b. Reserves. 4 River Monitors Trained men, not organized in additional 4 Patrol boats Other smaller craft Note-The Jugoslav Army must be reckoned with as an efficient fighting force, with good training. c. Naval Air Force (component of Navy) Squadronsc. Air Force (component of Army) 9 Seaplane 60 ships Squadrons-Total Naval personnel 8,000 43 (all types) 400 ships Note-The Jugoslav Navy, while negligible as com-Second line (obsolescent) 600 ships pared to Italian Navy, is nevertheless a definite threat to the latter's control of the Adriatic, by Total available planes 1,000 ships mining, submarine and aerial bombardment Personnel (included in figures above, and including

NETHERLANDS Primary Route of Invasion Hond — Bombing Time-Range Rivers Emden International Boundary ★ Important Fortress Groningen www. Canal Fill axia Floodable Areas > msterdan Leiden The Ha Arnhem The entire Eastern border is open to invasion from Tilburg Antwerp Maastricht $\overset{\mathbf{Brussels}}{\circledcirc}$ achen

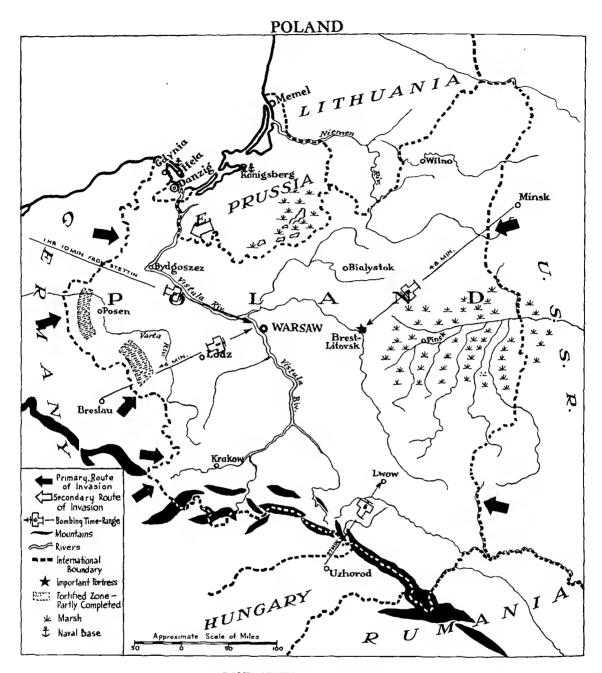
BOMBING TIME-RANGE TABLE

The Netherlands are open to aerial attack from Germany, France, Belgium, Great Britain, the Scandinavian countries, and from carrier-based aviation on the North Sea.

To	From	broximate Mileage	Elapsed Time		
Amsterdam		130	32 min.		
	Antwerp (Belg.)	80	20 min.		
	Goteborg (Swed.)	460	1 hr. 50 min.		
Rotterdam	English Coast	120	29 min		
	Calais (Fr.)	125	30 min		

Netherlands

Army a Force com	nd Navy are separate entities, with ponent of each.	an Air	d. <i>Arr Force</i> (1) Metropolitan
	Conscript with professional cadres) lar Army Metropolitan Army.		Squadrons—
\times	4 Divisions	80,000	24 Fighter and Reconnaissance 200 ships
	No independent cavalry—horsed elements are contained in each		(2) Colonial (East Indies)
7 75	division 2 Regiments		10 Bomber 100 ships
<u> </u>	2 Regiments Fortress Troops	10,000	5 Patrol Plane (flying boats—long
16	Antiaircraft (in process of reorganization)		range bombers) 75 ships
	_		(Navy) 175 shipş
A atrial	War Strength	90,000	Total first line planes 375 ships
	Peace Strength of above units t 40,000.		Personnel (included in Army and Navy totals)
	rves		Military Pilots 500 Other Ranks 4,000
1	Total	380,000	
c. Colo poss	nial Forces (garrisoned in overseas essions)		Tota! 4,500
(1) Re	gular Army		NAVY
\boxtimes	2 Divisions		5 Light Cruisers
Jart	Fortress Troops		8 Destroyers
16	Antiaircraft		44 Torpedo Boats (including 32 old, and 20 motor—"suicide"—boats)
	White	40,000	21 Submarines
(2) Res	serves	22,500	12 Mine Layers
	War Strength, colonial	62,500	Personnel8,901



BOMBING-TIME-RANGE TABLE

Poland is open to aerial attack from Germany, the Baltic states, Russia, Rumania and — by shuttle hnps through Germany-from Italy.

To	Approximate From Mileage	Elapsed Time	To	From	Approximate Mileage	Time
Warsaw	Allenstein (Ger) . 110	27 min.	Brest-	Allenstein (Ger.)	180 -	44 min.
	Stettin (Ger) 285	1 hr 09 min		Minsk (Rus)		48 min.
	Breslau (Ger.) 190	46 min		Breslau (Ger)		36 min.
	Kaunas (Lith) 220	53 min	Vilna .	. Kaunas (Lith)	. 60	15 min.
	Minsk (Rus.) 300	1 hr. 12 mm.		Dvinsk (Lat.)		hr. 03 min.
Lemberg	. Ungvar (Czs Ger) 120	29 min.	Danzig .	(see Gdynia)		
	Kluj (Rum.) 210		Note-	Many possible oppo	etunities for shuttle	operations.
Gdynia	Kolberg (Ger) . 120	29 min.	. 10,6-	many possible oppo	Attances for shall	

Poland

The War Ministry coordinates all Polish forces under one head.

Theory of combat: unknown. Army is trained along French theory. Poland has but few terrain features to aid or hinder military operations-the Vistula river and the great Pinsk marsh area being the principal ones.

c. Ke	ese rves .						
Normal	l available	strength	(less	men	now	under	the
color	s)			. 1,	160,0	00 app	rox.

ARMY	
 Regular Army. (Conscript with professional cadres). 	ıI
30 Divisions (normally skeletonized, now filled by partial mobilization)	0
1 Cavalry Division and 12 cavalry brigades of from four to six regiments each	0
10 Tank battalions (15% new materiel) 5,00	0
Air Force personnel 5,00	0
Fortress Troops, include 10 medium and 1 heavy artillery regiments, for mobile and fixed fortification, engineers, armored trains, antiaircraft, etc	0
Total Regular Army (mobilizable within 10	

6 Brigades of Infantry (included in above tabulation) under direction of Ministry of

. Air	Force	e. (Com	ponent	of army).		
亍				erating		800	ship s
		-				(app	rox.)
	Tota tal	l (inclu oulations)	ded ir)	Army	5,000		
VY							

NA

(Negligible)

-3/m/_ 3 Destroyers 3 Submarines

Vistula River Flotilla:

8 small monitors

6 small gunboats

30 armed motorboats

Remarks—Gdynia and Pinsk may be considered as bases. Brest-Litovsk is a first-ciass fortress. Along the Western front in Volynia a widely scattered string of fortifications is said to have been initiated.



b. Frontier Defense Force.

Interior in peace.

The statistics of Poland given in these pages are retained in this book as of interest in showing the defensive state of that country before its invasion and partition by Germany and the U.S.S.R.

Three Polish destroyers are now co-operating with the British Navy, and portions of the Polish Army are serving as a Polish Legion in the French Army.

421,000



Spain is open to aerial attack from France, North Africa, Portugal, Gibralter (Great Britain) and from carrier-based aviation on the North Atlantic and the Mediterranean.

		App	roximat	e		
To	From				Elap.	sed Time
Madrid	.Pau (Fr)				1 hr.	04 min
	Campo Maj	(Por.)	205			50 min
Cadız .	Gibraltar (B	r) -	50			12 min
Coruna .	.Bayonne (Fr)	350 .	-	f hr	24 min
Palma						
(Majorça)	Algiers (FN	1)	200			48 min.
	Perpignan (f	۲r).	220			53 min.
	ideally situate ince, Portugal				ling o	perations

BOMBING TIME-RANGE TABLE

Portugal is open to aerial attack from Spain, Gibraltar (Br.)); and France, and from carrier-based aviation in the North Atlantic and Mediterranean.

$T_{\mathcal{O}}$	From		Elapsed Time
Lisbon	Gibraltar (Br.)	400	hr. 09 min.
Porto	Bayonne (Fr.)		1 hr. 36 min.

Spain

No authentic data exist today on the strength and dispositions of the Spanish Army.

All major nations need Spain as an ally.

Portugal

Portugal's fighting forces are negligible in any major European struggle. The value of the nation and her colonial possessions is as bases for operations dominating Spain or protecting British and French maritime life lines.

ARMY

\gg	1 Cavalry Brigade	5,000
	War Strength Regular Army	165 000

War Strength, Regular Army 165,000
This force exists principally on paper, the units being skeletonized. Mobilization time not less than M + 30 days. Air Force is negligible.

b. Reserves.Estimated additional trained man-power 235,000NAVY (Negligible)



BOMBING TIME-RANGE TABLE

Rumania is open to aerial attack from Germany, Italy, Hungary, Russia, Turkey, and other Balkan states.

To	Approxi From Mileag		To	From	Approximate Mileage	Elapsed Tim
Bucharest .	Leros (It) 510 * . Munkacevo (Hun) 320 .	1 hr. 17 min.		.Bar (Rus.) . Lwow (Rus.)		32 min. 1 hr. 00 min
	Sevastopol (Rus) . 360 . Odessa (Rus.) . 260 Nish (Jugsl) 225	1 hr. 03 min		Nish (Jugsl.)	250	1 hr. 00 min
Constantza	Sevastopol (Rus.) 240 Leros (It.) 500 Ismit (Tur.) 240	2 hr. 00 mm.	*Long ran	ge bombers only		

Rumania

Army, Navy and Air Force are under jurisdiction of the Ministry of National Defense. Army and Navy are separate entities, with Air Force a part of the Army. Theory of Combat: Defensive. In this the terrain

Theory of Combat: Defensive. In this the terrain assists except in Bessarabia and the Dobrudja. Efforts at construction of a fortified zone are reported along the Pruth River.

ARMY (Conscript with professional cadres)

The nation is divided into seven corps areas.



25 Divisions; of these 2 are mountain, organized as a light infantry corps; one is the Guard Division (household troops).



4 Cavalry Divisions and 8 separate regiments—1 to each corps, 1 to Guard Division.



4 Tank Regiments

إممرا

Fortress troops, frontier guards, etc.

- a. The above elements, skeletonized in peace time, exist, with strength of ... 200,000
 b. War Strength mobilizable by M+15 days (above units only, reinforced) 392,000

Note—that the nation lacks materiel, that existing materiel is poor, and of varied nature.

d. Air Force



7	32 Squadrons, of all classes, in- cluding hydroplanes (100 of these less than 3 years old) 500 ships
	Reserve ships, all classes (obsolescent) 300 ships
	Total operating ships 800 ships
	8 Regiments (part of Air Force) (skeletonized) 6,400
	Air Force—8 regiments Military pilots 1,000 Other ranks 7,000 8,000
	Total Air Force (included in a above) 14,600

NAVY

- 1/2/ P

4 Destroyers

4 Gunboats

7 River monitors (Danube flotilla)

20 Patrol vessels

2 Armed launches (Dniester flotilla)

Personnel (est.) 1,500



Western Russia is partly open to aerial attack from Germany, Scandinavian countries, Baltic countries, Rumania, Turkey, Iran, F and from carrier based aviation in both Arctic and Baltic Seas

		Approxima	ale	Approximate	
To	From	Mileage	Elapsed Time To	From Mileage	Elapsed Time
Moscow	Vilna (Lith) Dorpat (Est)	500 450	2 hr 00 min Kiev 1 hr 48 min	Ungvar (Gcr) 390 Jassy (Rum) 270	1 hr 34 min 1 hr 05 min
	Dvinsk (Lat)	450	1 hr 44 min Odessa	Jassy (Rum) 160	39 m/n
Leningrad	Viborg (Fin) Reval (Fst)	7t) 200		Burgas (Bul) 340 Sivas (Tur) 280	hr 08 min
Minsk	Gotland (Swed) Insterburg (Ger)	160 240	1 hr 51 min Baku 58 min Archangel	Teheran (Iran) 335 Qulu (Fin) 450	1 hr 21 min 1 hr 48 min

Russia

Union of Soviet Socialist Republics

Army, Navy and Air Army are separate entities.

Theory of combat—Essentially defensive, despite the oft-time repeated assertion that if attacked Soviet Russia would carry the offensive into the other nation's territory.

ARMY

Nation is divided into 16 military areas.

The Red Army is perhaps the least known to outsiders of any military force in the world. The most fantastic figures have been published, to which credence is lent at first glance by the almost unlimited manpower of the nation. The following factors must be reckoned with in estimating Russia's military strength—

- a. Availability of materiel.
- b. Great length of time necessary for anything like complete mobilization, due to enormous distances and paucity of rail and motor roads.

The Army is organized into 21 corps, each of which is made up of several divisions. However, in all but three of these corps there is but 1 Regular division; the remaining three have 2 regular divisions each. Officer morale is low (because of recent "purges") and higher tactical training mediocre. Three army groupings exist, the Western Front, Caucasus and Far East (q. v.)

a.		(Conscript	with	professional
	cadres)			

\boxtimes	26 Divisions	390,000
\sim	14 Cavalry Divisions	140,000

3 Mechanized Divisions 42,000	3_	3	Mechanized	Divisions	42,000
-------------------------------	----	---	------------	-----------	--------

4	Tank Corps (estimated 3,000 armored vehicles, subdivided a mongst	
	corps)	15,000

إممر	Fortress Troops—infantry, heavy artillery, engineers, etc.	
	CC13, CLC	20,000

16	28 Mobile regiments, plus area defense units	28.000
	area defense annes i i i	20,000

5	Co-opera from unkno	Air	Army	a d r ons (details	
---	---------------------------	-----	------	-----------------------	--

_	Total	 	 	665,000

b. Reserves:

These units are now encadred, and at approximately half-strength.

\boxtimes	
\sim	

1	21	Divisions	158,000
1	15	Cavalry Divisions	75,000
Ū	· (n	nulitary formations seem-	

G. P. U (military formations, seem-	
ingly equal to rest of Red Army	
as combat troops, probably for	
use as interior guards)	150,000

383,000

Total available on M-Day (at mobilization points through-	
out Russia, not in any one	
area)	1,048,000
c. Augmentation by mobil-	
ization to fill above listed re-	
serve units, available by M+	
60 days	233,000

Total available by M+60 days ... 1,281,000 d. Territorial Army.

Mobilizable not before M+ 90 days at earliest, probably much longer. Cadres for these units appear to exist.

\times	42	Divisions		730,000
			_	

Total organized strength 2,011,000

It is not believed probable that materiel exists today in Russia to put more than the above strength into the field properly equipped, armed, and led.

Potential trained man-power 14,000,000

NAVY

Ships in commission or completing. Vessels projected or just laid down not counted. Much mystery surrounds Russia's naval strength today. The following is the best estimation possible—

	5	Battleships	(old)
--	---	-------------	-------

200 Submarines (possibly more)—
90 said to be in Far East waters.

Carriers—none—?

80 Coastal motorboats (Far Eastern waters)

Amur River Flottlla-

- 32 Gunboats
- 75 Armed launches

(Continued on next page)

Russia (Continued)

Personne	el—60,000 (est.) Cooperative squadrons fro q. v. (number unknow	m Air Army n)
AIR ARM	Y	
Squadrons		
	140 Bomber (heavy)	420 ships
51	60 Bomber (light)	1,000 ships
Ē	460 Fighter	3,030 ships
	110 Reconnaissance (including transport, etc.)	1,100 ships
	ating ships (50% more than 3 ld)	5,550 ships

Personnel---

Military Pilots	8,000
Other ranks	51,000
Total	59,000

(does not include semi-military pilots of the Osoaviakhim, nor parachute-jumper units).

Note—Russia's permanent establishment is set up for a two-front contingency, hence her Army and Air Army are definitely divided between Russia in Europe and Siberia, with approximately one-half the regular establishment and two-thirds of the territorial forces mobilizable in the west.

See page 73 for Siberia.

Switzerland

The nation is organized with an Army composed almost entirely of militia, with permanent establishment of 450 officers and men. The size of the country and the state of training facilitates prompt mobilization of its forces. Approximately 9,000 of its militia are at all times under arms. Militia service is obligatory.

ARMY



9 Divisions and 3 separate brigades	180,000
Now in progress of reorganization	5,000
M Day strength	185,000

Total war strength mo-

bilizable in M+4 days 450,000

AIR FORCE (Component of Army)

Squadrons-

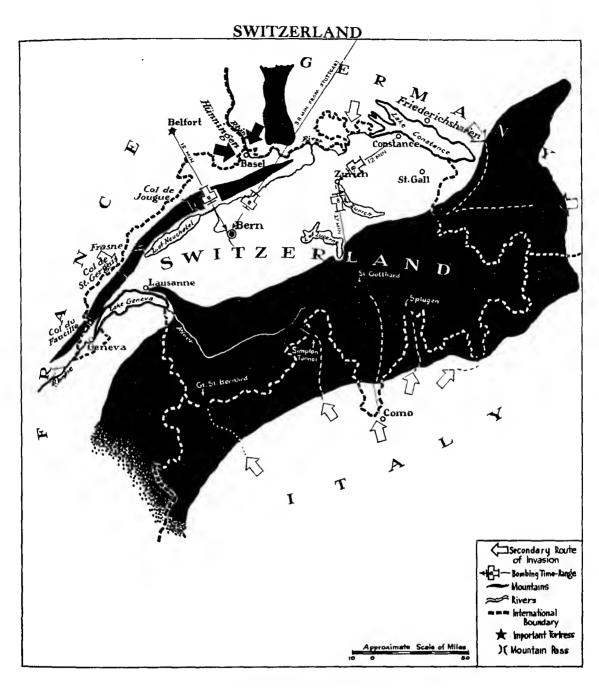


35 All types—essentially a reconnaissance force 350 ships

Reserve—obsolescent Fokkers .. 200 ships

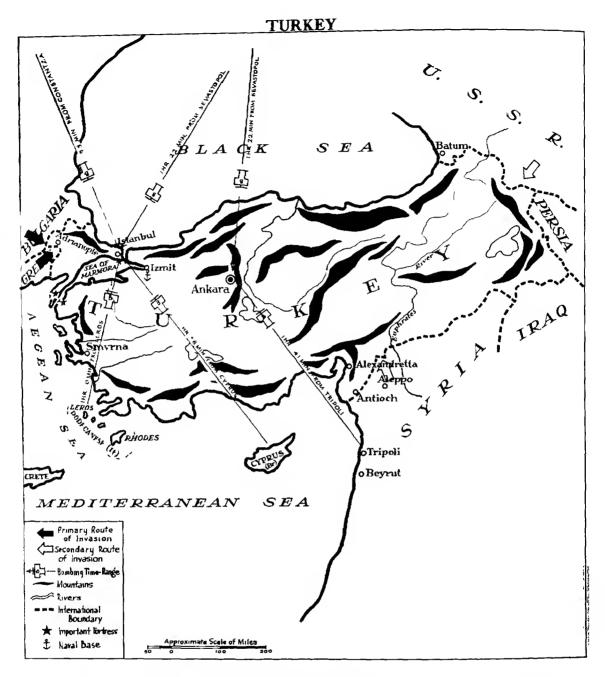
Total operating ships.. 550 ships

Like the rest of the Army, the Air Force is skeletonized in peace time. The number of military pilots is small.



Switzerland is open to aerial attack from Germany, Italy and France.

		Approximate					Approximate	
Tο	From	Mileage	Elapsed	Time	To	From	Mileage	Elapsed Time
Geneva	Lyons (Fr.)	70	17	min.	Zurich		(Ger.) 105	
	*Turin (It.)	105	26	min.		*Como (It	.) 110	27 min.
Bern	Stuttgart (Ger.)			min.	Fried	lerichsh a ven	(Ger.) 52	. 12 min.
	Belfort (Fr.)			min.	*Note'T	he above ar-	e air-line distance, horiz	zontal. Actual
	*Como (It.) · · · · ·			min.		e would be the Alps.	greater, due to necess	ity of gaining



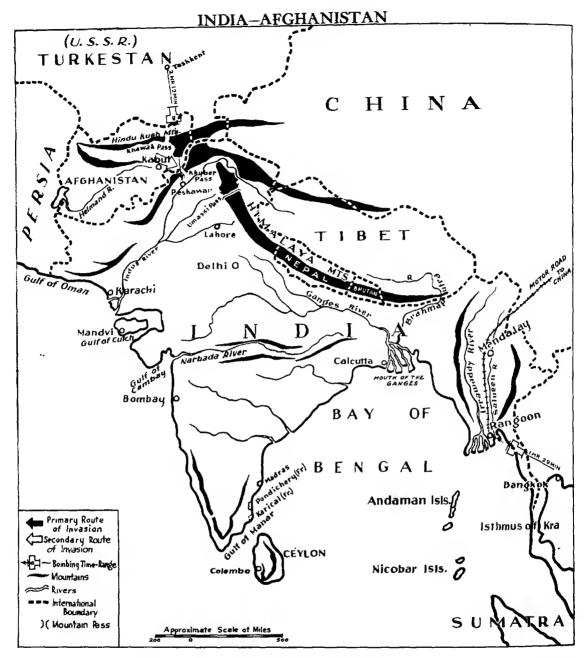
Turkey is partly open to aerial invasion from Russia, the Balkan States, Italy (Leros), Great Britain (Cyprus), France (Levant), and from carrier based aviation on the Black and Mediteiranean Seas

To		proximate Mileage	Elapsed T	ıme
Istanbul	Leros (It)	290	1 hr 10 i	min
		340	1 hr 22 i	៣រោ
	Salonika (Gr.)	315	1 hr 16 i	מנמו
	Cyprus (Br)	490	1 hr 58 i	យារ
	Constantza (Rum)	220	53	ឃារប
Ankara	Sevastopol (Rus)	325	1 hr 18	mın
	Tripoli (Fr)	420	1 hr 41 i	mıa

Turkey

NAVY Army and Navy are separate entities. Air Force is part of Army. 1 Battle Cruiser (most powerful unit in Black Sea, rebuilt and fit to lie in ARMY (Conscript with professional cadres) the line) 22 Divisions 2 Light Cruisers-old 3 Cavalry Divisions 4 Destroyers ? (said to be in organization) 9 Submarines Fortress Troops War Strength 700,000 Peace Strength 160,000 AIR ARMY Bombers 150 ships Fighters 300 ships Reconnaissance 100 ships Total first line 550 ships Second line (obsolescent) 400 ships Personnel (included in above) -Military Pilots Other Ranks 7,800

Total 8,400



India is well protected in great part from air raids, due first to the distances between her principal strategic points and foreign airdromes, and second to the wide-flung Himalayas, whose heights definitely canalize the airways to a certain few passes. She is open to attack from carrier-based and seaplane aviation from the Bay of Bengal and Arabian Sea, but here anything beyond sporadic raids must necessitate enemy possession of (a) the Suez Canal-Red Sea line, or (b) the Malay Straits. Bombay and Colombo are both more than 1,000 miles from potential hostile land bases.

To	Front	Approximate Mileage	Elapsed Time
Feshawar	Tashkent (USSR) Kabul (Afgh'st'n)		2 hr 12 min. 39 min.
Rangoon	Kabul (Afgh'st'n) .Bangkok (Siam)*Bangkok (Siam)	370 370	1 hr. 29 min 1 hr. 24 min.

^{*}Possible only for a few of the most modern bomber:.

India

ARMY

a. Regular Army:

A composite force, composed of British regular units (British Army in India), and Indian regular units, secured by voluntary enlistment, with professional officer corps (Indian Army). The Indian Army officer corps is composed of both British and natives. Indian units are brigaded with British units in divisions, in normal proportion of 1 British to 3 native battalions. The British Army in India totals 53,000, the Indian Army totals 181,000, a total strength of 234,000, organized as follows:

4 Divisions)
4 Cavalry Brigades	234,000
Fortress troops)
25 4 1 1 1 111 11	

- Reserves:—(organized and mobilizable immediately)
- (1) Auxiliary Force (British subjects residing in India, formed in non-divisional volunteer units, all arms) 34,000

- (2) Territorial Force (Indian) 27,000

106,000

War strength 240,000

Note—British units in above are not included in Great Britain tabulation.

NAVY (Included in British Navy, q. v.)

5 Sloops. Personnel, 1,457.

AIR ARMY (Detachment of Royal Air Force, Great Britain, q. v. and Royal Indian Air Force.)

Squadrons-

B 4 Bomber

4 Cooperative, attached to Army.

Afghanistan

ARMY (Conscript with professional cadres. Lately organized.)

War strength 100,000

Of importance only in guerrilla warfare.

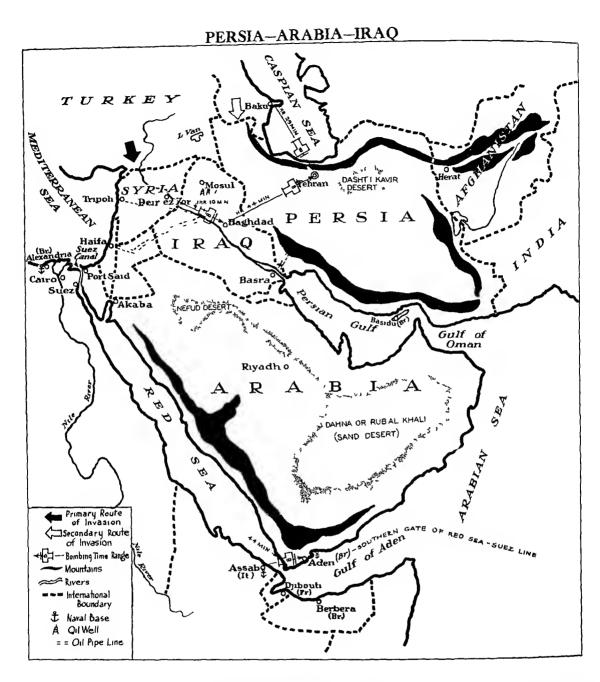
BOMBING TIME-RANGE TABLE

Afghanistan is open to aerial attack from Russia, India and Persia. Account must be taken of difficulties of flying over the Hindu Kush.

 To
 From
 Approximate Mileage
 Elapsed Time

 Kabul
 ...Peshawar
 (Ind.)
 ...180
44 min.

 Samarkand
 (USSR)
 ...380
 ...1 hr. 32 min.



Iraq is open to terial attack from Syria, Turkey, Persia, Palestine and Arabia, and from carrier based and sea plane aviation in the Persian Gulf

To	From	Approximate Mileage	Elapsed Time
Baghdad	Deir ez Zor (Syr	Fr) 290	1 hr 10 min
· ·	Tehran (Per)	430	1 hr 44 min
	Riyadh (Arabia)	670*	2 hr 41 min
	Van (Turk)	380	1 hr 32 min
Γeasible	by shuttling only		

Iraq

Persia (Iran)

ARMY (Conscript with professional cadres)		
9 Divisions and 5 separate brigades	Peace strength'	35,000 180,000
All types 200 ships.		

BOMBING TIME-RANGE TABLE

Persia is open to aerial attack from Russia, Turkey, Iraq, Afghanistan, India, Arabia and carrier-based and seaplane aviation on the Caspian Sea, Persian Gulf and Arabian Sea.

		Approximate	•
To	From		Elapsed Time
Tehran	. Baku (Russ.) Baghdad (Iraq) Basra (Iraq)	430	1 hr. 29 min. 1 hr. 44 min. 1 hr. 41 min.
Basidu (Br ish), mouth Persia	rit- i n of		
Gulf	Herat (Per.)	670*	2 hr. 41 min.
			3 hr. 03 min.

Arabia

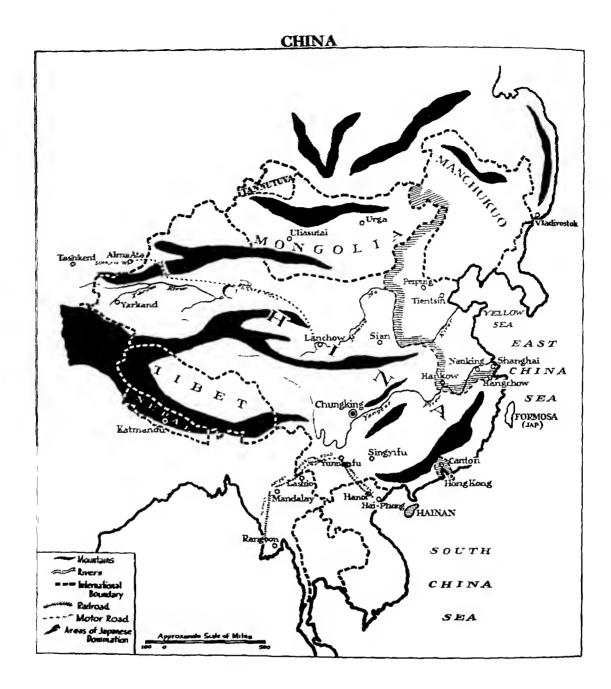
Regular armed forces negligible. Of military importance only in consideration of its relation to the

Suez Canal, and to Britain's life-line through the Red Sea and into the Indian Ocean. See map.

BOMBING TIME-RANGE TABLE

Arabia is open to aerial attack from Italian East Africa and from carrier-based and seaplane aviation on the Red Sea and Indian Ocean.

To	From	Approximate Mileage E	lapsed Time
Aden	(Br.) Assab (It.)	170	44 min



China

No details of China's actual strength or armed forces are available at the present time. More than 1,000,000 men are in arms, engaged in guerrilla warfare under various commanders, with a National Army in possible

state of reconstruction, hampered by lack of supply communications. Japan holds all seaports and railways. See map for communications routes still open to Chinese National forces.

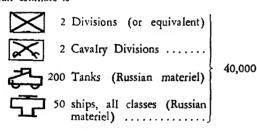
Outer Mongolia

A republic, nominally under Chinese suzerainty, it is in fact loosely linked with the U. S. S. R. by a mutual assistance pact consummated March 12, 1936. Uliassutai, 460 flying miles from Ulan Bator, is terminus of the Russian railway from Semipalatinsk. Another Russian railway thrusts down from Verkeudinsk in Siberia to Ulan Bator (Urga). These railways furnish communications for basing forces operating in Outer Mongolia. The Great South Road—from Ebi Nor to Lanchow, age-old silk caravan route—is one of the few remaining supply channels for Nationalist China.

ARMY

a. Regular Army.

An unknown quantity. Russian trained and equipped, its uniforms are practically identical with those of the U. S. S. R. No accurate data are available on strength. A fair estimate is—



b. Reserves.

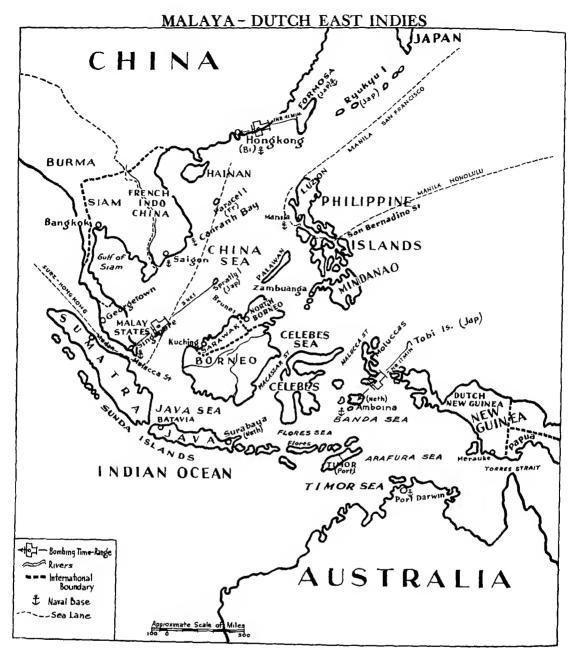
Nomadic units, loosely organized and capable of guerrilla warfare only, approximately 100,000

Total strength 140,000

c. Operations.

Similarity of uniforms and materiel render it possible for the U. S. S. R. to maintain a portion of its armed forces on Mongolian terrain for training purposes.

Air missions operating from Uliassutai and Ulan Bator can, and doubtless do, furnish protection to munitions convoys on the Great South Road, besides harrassing Japanese operations along the border and out of Kalgan, base for future Japanese operations striking into Mongolia with objective of cutting Soviet communications in the Lake Baikal area of Siberia.



The Dutch East Indies are open to aerial attack from the Malay States, Sarawak, British North Borneo, Japanese-owned or mandated islands, the Philippines, Australia, and from carrier-based and sea-plane aviation on the China Sea, Indian and Pacific

To Batavia	From	Approximate Mileage	,	Elap.	sed	Time
(Java) Amboina Is Medan	Singapore (Br) Kutching (Sar Tobi Isl (Jap) Bathurst Is (A	Br) 540~ 5703	2 2	hr hr	10 17	unu unu unu unu
(Sumatra) Natoena Is Makassar Straits	Georgetown (B Spratly Is (Jap Zamboanga (P.) 420 . . I.) 520*			41	min min, min.
* Long rai	nge bombers only	62				

Dutch East Indies

The data shown below are included in Netherlands. q. v.	c. Air Force Squadrons
ARMY a. Regular Forces—	B 10 Bomber (Army) 100 ships
2 Divisions	5 Patrol Planes (flying boats) (Navy) 75 ships
Fortress Troops (including anti-aircraft)	Total operating ships 175 ships Air Base—Amboina Island.
b. Reserves	NAVY See Netherlands—major portion of navy rotates on East Indies station.

Malaya

Includes the entire British outpost position in the Far East based primarily upon Singapore and secondarily upon Hong Kong. Territory involved, excepting Hong Kong, is the Malay peninsula and British possessions in Borneo.

ARMY (British and Indian Army regular troops, not included in totals for India).

- a. Hong Kong-Singapore Force.
- (1) Singapore garrison:—

\boxtimes	2 Reinforced Brigades (all arms)	}
	Fortress troops (Artillery, Anti-aircraft, etc.)	
(2) Ho and the K	ong Kong garrison (Island of Ho owloon mainland area leased from	ong Kong China)

The state of the s	Cimina
1 Brigade	}
1 Cavalry Regiment	
1 Battalion Field Artillery	10,000
Fortress troops (Artillery, Anti-	

aircraft, etc.)

The Hong Kong-Singapore Force is an elastic organization, reinforced as desired from India.

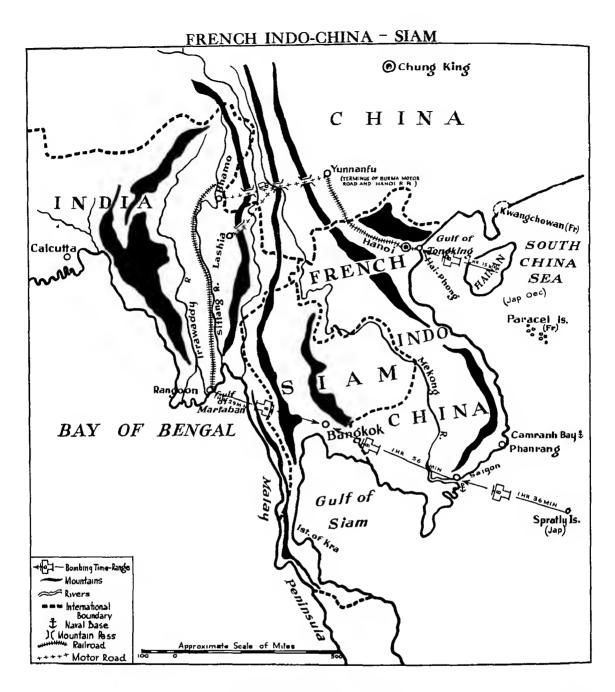
b. Reserves

Volunteer forces exist both at Singapore and Hong Kong, of British subjects living there. Approximate totals 2,000, of all arms Conscription is now being put into effect

The above does not include small police garrisons in Borneo.

AIR ARMY (Royal Air Force detachments from India as needed).

Critical points in Malaya on the Hong Kong-Singapore line are the former, now within easy reach of Japanese aerial attack from Chinese bases, and Singapore, still 750 miles—3 hr. bombing time-range—from Spratly Island, Japanese seaplane base. The Spratly Island base is highly important, as it lies on the China Sea almost equidistant from British North Borneo and French Indo-China, dominating the Hong Kong-Singapore sea lane and all maritime communication between the Indian Ocean and the China Sea. It should also be noted that should Siam be allied with or come under domination of Japan, her Kra area of the Malay peninsula would furnish an excellent base for aerial attack on Singapore. From Sungkla to Singapore is 470 miles—1 hr. 53 min. bombing time-range.



Siam is open to aerial attack from Indo-China, India, and South China, also from carrier based and seaplane aviation on the Bay of Bengal, Gulf of Siam and China Sea

To	From	Approximate Mileage	Elapsed Time
Bankok	Saigon (Fr)	480	1 hr 56 min
	Rangoon (Br)	370	1 հr 29 mın
	*Singapore (Br.)	900	3 hr 36 min
	*Harnan (Jap.)	750	3 hr 00 min

^{*}Excessive except for long range flying boats also feasible in the case of Singapore by shuttling between that place and Indo China dromes

Siam

ARMY (Conscript with professional cadres)

21 Battalions

13 Cavalry Regiments

8 Field Artillery Groups (battalions)

3 Antiaircraft Artillery Groups

Fortress troops
Peace strength 24,000
War strength 32,000

Air Corps (part of Army)

All types, total of 207 ships.

Value and strength of flying personnel unknown.

NAVY

2 Coast Defense ships

1 Destroyer and 12 Torpedo boats (of which three obsolete)

4 Submarines

8 Coastal motor "suicide" torpedo boats

Personnel 4,000

Note—Siam is of great military value to any nation or group of nations opposing an Anglo-French entente, since geographically it splits French Indo-China and British India. Some consideration has been given to a canal to be cut through the Malay peninsula on Siamese territory, at the Isthmus of Kra, by-passing Singapore and nullifying its importance. The more modern vessels of Siam's navy are Japanese-constructed; she has two additional cruisers under construction today in Italian yards.

French Indo-China

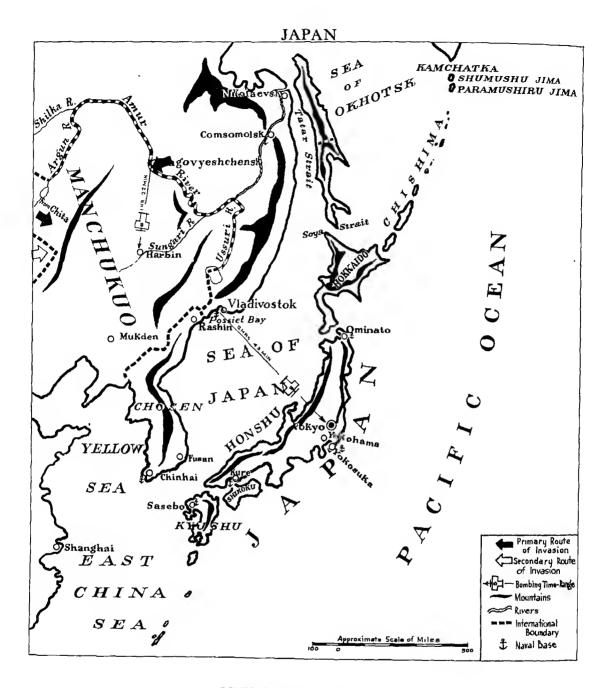
 Composed of native and French troops—French colonial infantry and artillery, and the 5th Regiment of the Foreign Legion. See France.

BOMBING TIME-RANGE TABLE

Indo-China is open to aerial attack from India, Siam, China, Japanese possessions, East Indies and from carrier-based or seaplane aviation in the China Sea and Gulf of Siam.

		Approximate	
To	From	Mileage	Elapsed Time
Saigon	Spratly Is. (Jap.)	400	. 1 hr. 36 min.
·	Singapore (Ind.)	600*	. 2 hr. 24 min.
	Bangkok (Siam)	390	. 1 hr. 34 min.
Hanoi	Mandalay (Ind.)	630*	. 2 hr. 32 min.
	Hainan Is. (Sino-		
	Yunnanfu (Čhin.)	330	. 1 hr. 20 min.

^{*}Long-range bombers and transport only.



Japan itself is partly open to aerial attack from Siberia and China, and is entirely open to attack from carrier-based planes and from seaplanes on the Pacific Ocean, Sea of Okhotsk, Sea of Japan and Yellow and East China Seas Formosa is open to aetial attack from China and the Philippine Islands; Manchuquo and Chosen from both China and Russia and all are open to carrier-based aviation attacks.

To	From	Approximate Mileage	Elapsed Ti		From	Approximate Mileage	Elap	red	Time
Fokyo	. Vladivostok	520	. 2 hr 43 m	nın (Man)	Blagoveschensk				
Formosa	. Hong Kong	(Br) . 550* JS) . 530*	2 hr. 12 mi	nin. nin. Mukden .	(Rus) Vladivostok (1	340	1 hr.	22 48	min. min.
* Long	-range bombers i	only		Rashin (Chosen)	.Vladivostok-••†	100		24	min.

Japan

ARMY (Conscript with professional cadres) a. Regular Army. Basic organization: 17 Divisions (war strength) 425,000 4 Cavalry Brigades—cavalry elements are part of each Infantry division 20,000 Tanks and other mechanized elements exist. Antiaircraft Arty. Corps 11,000 Ari Force—Squadrons 4 Brigades Heavy Artillery 10,000 Air Force—Squadrons 11 Observation 165 ships 11 Fighter 165 ships 11 Fighter 165 ships 12 Homber 40 ships Total Stt Line 270 ships 2d Line, all types 300 ships Total Army ships 1,070 ships Personel—Military Pilots 1,500 Other ranks 11,000 b. Reserves. 17 Divisions (Japanese) 80,000 All Profess Troops 1,500 Other ranks 11,000 c. Manchuquo Garrison— 425,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manchuquo gar- Total Manchuquo gar-	Army and Navy are separate entities, under the Emperor. Air forces are components of both. Japan is today on a war footing.	d Chosen (Korea) Garrison:— 2 Divisions
17 Divisions (war strength) 425,000	ARMY (Conscript with professional cadres)	_ \
4 Cavalry Brigades—cavalry elements are part of each Infantry division 20,000 Tanks and other mechanized elements exist. Antiaircraft Arty. Corps 11,000 Fortress Troops 15,000 Air Force—Squadrons Air Force—Squadrons 11 Observation 165 ships 11 Fighter 165 ships 11 Fighter 165 ships 12 A Bomber 40 ships Total Ist Line 270 ships 2d Line, all types 800 ships Total Army ships 1,070 ships Personnel—Military Pilots 1,000 Other ranks 11,000 b Reserves. 17 Divisions 1,000 C. Manchuquo Garrison— A Divisions (Japanese) 80,000 E 2 Cavalry Brigades 10,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manchuquo gar- Total Manchuquo gar- Total Manchuquo gar- Total Manchuquo gar- 11,000 Total Manchuquo gar- 12,000 Manchuquo gar- 13 Regiments Infantry 1,173,600 Note—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army in China, and has kept a rotating mobilization in effect to maintain her units in China at war strength, the above would seem to be a fair estimate of the force she can keep in the field. E Territorial Reserve. Mobilizable in M + 30 days, 1,000,000 NAVY (Known vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional under construction?) including Hiysi demilitative for training purposes and stated to have been restored to to strength since expiration of London Treaty. 11 Levy Cruisers 21 Light Cruisers (including 2 exchange of training purposes and stated to have been restored to to strength since expiration of London Treaty. 11 Divisions (Japanese) 80,000 22 Cavalry Brigades 10,000 3 Scaplane carriers (2 additional building) 23 Aircraft Tenders. 70 Submarines (probably more) Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	a. Regular Army. Basic organization:	e. Formosa Garrison—
4 Cavalry Brigades—cavalry elements are part of each Infantry division Tanks and other mechanized elements exist. Antiarcraft Arty. Corps 11,000 Fortress Troops 15,000 Antiarcraft Arty. Corps 11,000 Are Force— Squadrons Are Force— Squadrons 11 Observation 165 ships 11 Fighter 165 ships 4 Bomber 40 ships Total I stypes 800 ships Total Army ships 1,070 ships Personnel— Military Pilots 11,000 b Reserves. 17 Divisions 4 Divisions (Japanese) 2 Cavalry Brigades 10,000 Antiarcraft Total Army ships 10,000 11 Observation 12,500 12 Heavy Cruisers 12 Heavy Cruisers 13 Destroyers (10 additional building) 5 Airplane (carriers) (2 additional building) 5 Airplane (carriers) 5 Airplane (carriers) 12 Additional building) 2 Cavalry Brigades 10,000 Antiarcraft Total Nose—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect or maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at gree mobile army un China, and has kept a rotating mobilization in effect to maintain her units in China at war stength, the above would seem to be a fair estimate of the force she can keep in the field. 8. Territorial Reserve. Mobilizable in M + 30 days, 1,000,000. NAVY (Known vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional under construction?) including Pilyri demilitarized for training purposes and state	17 Divisions (war strength) 425,000	3 Regiments Infantry
Tanks and other mechanized elements exist. Antiaircraft Arty. Corps 11,000 Antiaircraft Arty. Corps 11,000 Fortress Troops 15,000 A Brigades Heavy Artillery 10,000 Air Force— Squadrons 11 Observation 165 ships 11 Fighter 165 ships 12 Bamber 40 ships Total Army ships 1,070 ships Personnel— Military Pilots 1,000 Alter Force— Military Pilots 1,000 Antiaircraft 11,173,600 Note—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army in China, and has kept a rotation flowing mobilization in effect to maintain her units in China at war strength, the above would seem to be a fair estimate of the force she can keep in the field. Antiaircraft 1,173,600 Note—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army in China, and has kept a rotation of this at war strength, the above would seem to be a fair estimate of the force she can keep in the field. Antiaircraft 1,173,600 Note—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army in China, and has kept a rotation mobile army in China, and has kept a rotation of the force she can keep in the field. Antiaircraft 1,173,600 Note—Since Japan has been on an ever-increasing war-footing since July, 1937, with a large mobile army in China, and has kept a rotation mobile army in China, and has kept a rotation of the field. Ar Force— Squadrons 11 Observation 165 ships 12 Destroyers Mobilizable in M + 30 days, 1,000,000. NAVY (Known vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional propose militarized for training purposes and stated to have been restored to strength since expiration of London Treaty. 11 Divisions 1,500 Other ranks 1,1,000 2 Cavalry Brigades 10,000 Antiaircraft 1,1,173,600 Note—Since Japan has been on an ever-increasing war-footing since July,		
Antiarcraft Arty. Corps		
Antiarcraft Arty. Corps 11,000 Fortress Troops 15,000 A Brigades Heavy Artillery 10,000 Air Force—Squadrons Air Force—Squadrons 11 Observation 165 ships 11 Fighter 165 ships 11 Fighter 165 ships 12 Hamber 13 Bomber 14 Bomber 150 ships 150 Abips 165 ships 17 Dial 1st Line 17 Dial Army ships 18 Regiments 191, 1923, 7 with a large mobile army war-footing since July, 1937, with a large mobile army mobilization in effect to maintain her units in China at war strength, the above would seem to be a fair estimate of the force she can keep in the field. 18 E-Territorial Reserve. Mobilizable in M + 30 days, 1,000,000. NAVY (Known vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional under construction?) including Hipei demilitarized for training purposes and stated to have been restored to strength since expiration of London Treaty. 10 Battleships (4 additional under construction?) including Hipei demilitarized for training purposes and stated to have been restored to strength since expiration of London Treaty. 10 Battleships (4 additional under construction?) including Hipei demilitarized for training purposes and stated to have been restored to strength since expiration of London Treaty. 12 Heavy Cruisers 12 Light Cruisers (including 2 exchinese) (7 more building) 12 Destroyers (10 additional building) 12 Destroyers (10 additional building) 13 Seaplane carriers (2 additional building) 2 Aircraft Tenders. 70 Submarines (probably more) Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st		
Fortress Troops 15,000 4 Brigades Heavy Artillery 10,000 Air Force—Squadrons Air Force—Squadrons 11 Observation 165 ships 11 Fighter 165 ships 16	Antiaircraft Arty. Corps 11,000	war-footing since July, 1937, with a large mobile army
she can keep in the field. ## Force—Squadrons Arr Force—Squadrons 11 Observation	Fortress Troops 15,000	effect to maintain her units in China at war strength,
Arr Force— Squadrons 1,000,000. NAVY (Know vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 11 Fighter 165 ships 4 Bomber 40 ships Total 1st Line 270 ships 2d Line, all types 800 ships Total Army ships 1,070 ships Personnel— Military Pilots 1,500 Other ranks 11,000 12,500 b Reserves. 17 Divisions 425,000 c. Manchuquo Garrison— 4 Divisions (Japanese) 80,000 2 Cavalry Brigades 10,000 Fortress troops (est.) 5,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manchuquo gar- 1,000,000. NAVY (Know vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional under construction?) including Hiyei demilitarized for training purposes and stated to have been restored to strength since expiration of London Treaty 25 Light Cruisers (10 additional building) 5 Airplane (carriers) (2 additional building) 3 Seaplane carriers (2 additional building) 2 Aircraft Tenders. 70 Submarines (probably more) Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	4 Brigades Heavy Artillery 10,000	she can keep in the field.
11 Observation 165 ships (Known vessels, from all available sources. That Japan may have constructed additional capital ships is quite possible) 11 Fighter		
Japan may have constructed additional capital ships is quite possible) Japan may have constructed additional capital ships is quite possible) 10 Battleships (4 additional under construction?) including Hiyei demilitarized for training purposes and stated to have been restored to strength since expiration of London Treaty. Total Army ships 1,070 ships Personnel— Military Pilots 1,500 Other ranks 11,000 12,500 b Reserves. 17 Divisions 425,000 c. Manchuquo Garrison— A Divisions (Japanese) 80,000 L Cavalry Brigades 10,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Manchuquo levies (value doubtful): Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	•	
Total 1st Line		Japan may have constructed additional capital ships is
and stated to have been restored to strength since expiration of London Treaty. Total Army ships	B 4 Bomber 40 ships	construction?) including Hiyei de-
Total Army ships 1,070 ships Personnel— Military Pilots 1,500 Other ranks 11,000		and stated to have been restored to strength since expiration of London
Personnel— Military Pilots 1,500 Other ranks 11,000 12,500 b Reserves. 17 Divisions 425,000 c. Manchuquo Garrison— 4 Divisions (Japanese) 80,000 2 Cavalry Brigades 10,000 Fortress troops (est.) 5,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 20 Brigades 100,000 21 Agricaft Tenders. Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	Total Army ships 1,070 ships	P 1
5 Coast Defense ships (old) 17 Divisions	Personnel— Military Pilots 1,500	25 Light Cruisers (including 2 ex-
ing) 5 Airplane (carriers) (2 additional building). 4 Divisions (Japanese) 80,000 2 Cavalry Brigades 10,000 2 Tank Regiments 2,100 Fortress troops (est.) 5,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 20 Brigades 100,000 Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	Other ranks 11,000 12,300	5 Coast Defense ships (old)
17 Divisions	b Reserves.	
4 Divisions (Japanese) 80,000 2 Cavalry Brigades 10,000 2 Aircraft Tenders. 70 Submarines (probably more) Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	17 Divisions 425,000	
building) 2 Cavalry Brigades 10,000 2 Tank Regiments 2,100 Fortress troops (est.) 5,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manchuquo gar- building) 2 Aircraft Tenders. 70 Submarines (probably more) Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	c. Manchuquo Garrison—	
2 Tank Regiments . 2,100 Naval Air Force— Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	4 Divisions (Japanese) 80,000	3 Seaplane carriers (2 additional building)
2 Tank Regiments . 2,100 Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	2 Cavalry Brigades 10,000	2 Aircraft Tenders.
Fortress troops (est.) . 5,000 Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manchuquo gar- Naval Air Force— (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	2 Tank Regiments 2,100	70 Submarines (probably more)
Manchuquo levies (value doubtful): 20 Brigades 100,000 Total Manichuquo gar- (Squadron organization unknown) Estimated total of 600 patrol planes (flying boats) and 400 carrier-based land planes, making total in 1st	hour	Naval Air Force—
20 Brigades 100,000 planes (flying boats) and 400 carrier-based land Total Marichuquo gar- planes, making total in 1st	Manchuquo levies (value doubtful):	(Squadron organization unknown)
Total Marichuquo gar- planes, making total in 1st		planes (flying boats) and
	Total Marichuquo gar- rison 197,100	
(Continued on next page)		

Japan (Continued)

2nd Line Naval Air Force, including obsolescent types	1,000 ships
Total all classes	2,000 ships
Active	00

Note-Bearing in mind the high percentage of patrol boats and the availability of carriers, seaplane carriers and aircraft tenders it will be noted that Japanese naval aviation is peculiarily fitted for national strategy of a maritime nation with wide-flung island outposts.

Svria

French mandate, under French military control for defense. Note that Tripoli is outlet for French oil pipe-lines from Iraq.

1 Division (reinforced) 16,000

5 Cooperative squadrons (From French Air

4 Cooperative squadrons (from Air Army,

ARMY

a. Regular Army (French troops, included under France q. v., and Levant Force, recruited locally)

Palestine

British mandate, under British military control for defense. Note that Haifa is outlet for British oil pipe-lines from Iraq.

1 Division (reinforced) 20,000

ARMY

a. Regular Army (British troops included under Great Britain q. v.)

Great Britain, q. v.)

Army q. v.)

BOMBING TIME RANGE TABLE

Palestine is open to aerial attack from her neighbors, from Turkey, from Italian Mediterranean bases (with difficulty) and from carrier-based and seaplane aviation in the Mediterranean Sea.

			Approximate	
To	From		Mileage	Elapsed Time
Haifa	.*Samos (It *Tobruk (I	.),	650	
Jerusalem			670 550	

*Probable only by use of seaplanes shutsling to senders.

Trans-Jordan

British mandate, under British military control for defense,

ARMY

a. Regular Army. Trans-Jordan Frontier Force, amounting to approximately one regiment, horse and mechanized, 1,100.

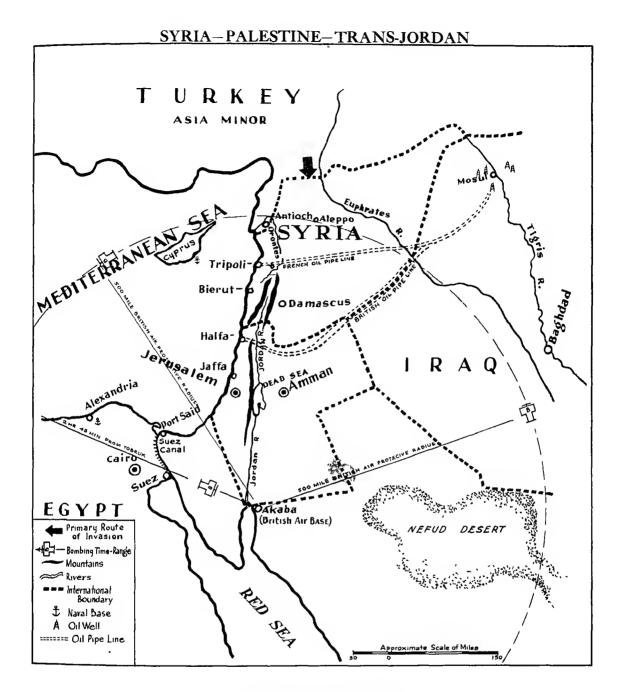
Note-Trans-Jordan force is available for use in Sinai Peninsula, into which British and Egyptian units may be sent from Cairo, for defense of the east bank of the Suez Canal. Royal Air Force units based in Trans-Jordan, Palestine or Egypt perform normal reconnaissance functions in the Sinai.

1 Cooperative squadron (from British Air Army, q. v.)

BOMBING TIME-RANGE TABLE

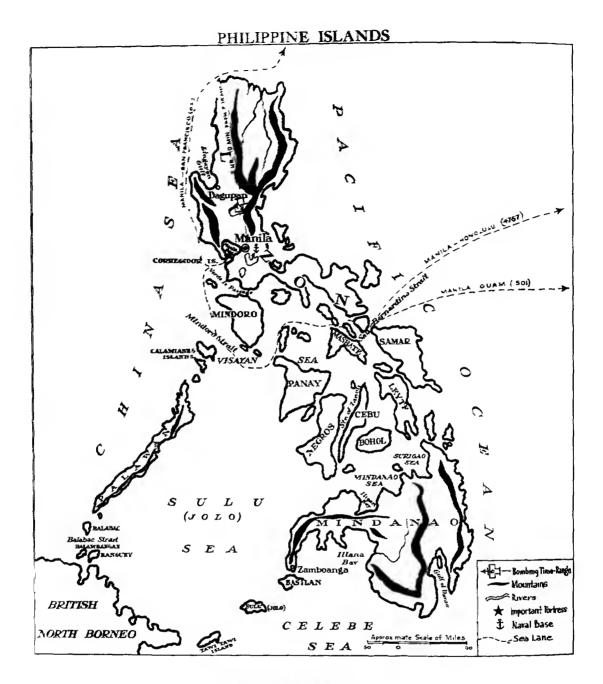
Trans-Jordan is open to aerial attack from her neighbors and from carrier-based and seaplane aviation on the Mediterranean and Red Seas.

		Approximat	e
To	From	Mileage	Elapsed Time
A quaba	Tobruk (It.)	720	2 hr. 53 min.



Syria is open to aerial attack from Turkey, Iraq, Palestine, Trans-Jordan, Italian bases (with difficulty) in the Dodecanese and Libya and from carrier-based and seaplane aviation in the Mediterranean Sea

To	From	Approximate Mileage	Elapsed Time
Tripoli .	*Samos (It)	600	2 hr 24 min
Beirut	Rhodes (It)	500	2 hr 00 min
	*Tobruk (It)	720	2 hr 53 min
Aleppo	Kayseria (T)	230	56 min
* Proba	ble only by use of sec	ablanes shuttling	to tenders



Manila and the harbor defenses of Manila and Subig Bays constitute the key points of defense. They are open to long range aerial attack from Formosa, Borneo, certain Japanese owned or mandated islands, and from carrier based or sea plane aviation on the China and Celebes Seas and Pacific Ocean.

	A	proximale	
To	From	Mileage	Elap ed Time
Manıla	Formosa (Jap)	540*	2 hr 10 min
	North Borneo (B	r) 650*	2 hr 36 min
	Spratly Is (Jap)	820*	3 hr 17 min
8 Long-rat	nge hombers only		

Note—As shown on the map within the circles, many islands are within bombing range of the island of Luzon, which might be occupied as temporary advance bases by long range flying boats (patrol planes) from which to make assault Shuttling operations are thus facilitated

Philippine Islands

Defense of the Islands at the present time is a responsibility of the United States, regardless of present or future political status.

ARMY

a. U. S. Regular Army (q. v.) (including 6,000 Philippine Scouts) ---

 \boxtimes

1 Division (reduced strength



1 Cavalry Regiment

9,500

Fortress troops—Coast artillery, fixed and mobile (including antiaircraft, etc.)

b. Air Corps

Elements of U. S. Army Air Corps q. v.

c. Philippine Commonwealth Army

NAVY

a. U. S. Navy (q. v.) Asiatic Fleet.

2 Light cruisers

4 Gunboats (and 6 river gunboats in Chinese waters)

13 Destroyers

6 Submarines

b. Philippine Commonwealth.

Several Coast Guard cutters, negligible in fighting strength.



BOMBING-TIME-RANGE TABLE

Siberia is partly open to aerial attack from Japan, Iran, India, Afghanistan, Manchuquo, Chosen, and from carrier-based aviation in the Sea of Japan.

in the sea of Japan.	Abbroximate		To	From	Mileage	Elapsed Time
To Fro		apsed Time		•	Approximate	
Vladivostok Ominata (J: Kirin (Man Rashin (Ch	ch) 290 1 H	hr 00 min. hr. 10 min. . 12 min.	Tashkent Bokhara	Kabul (Afgh.) Peshawar (Ind Kabul (Afgh)) *540 · · · · · 470 · · ·	1 hr. 56 min. 2 hr. 10 min. .1 hr. 53 min.
Komsomolsk Aigun (Mar Blagovi	ich.) 4801 h	hr 56 min	Krasnovodsk	Teheran (Iran. ange planes or) 330	1 hr. 20 mm.
schensk Aigun (Mar Chita Manchuli (1		05 min. 58 min	Note-Shut	ttling over VI	adivostok area b uo is quite feasib	etween bases in le.

Siberia

Union of Soviet Socialist Republics

Available forces listed below are included in U.S.S.R. strength tables on pages 51, 52 q. v.

ARMY

Regular Army-1st and 2d Far Fastern Red

a. Kegui Banner Arn	nies.	етп Кед
\boxtimes	15 Divisions	225,000
\sim	7 Cavalry Divisions	120,000
<i>7</i> 7_	Tank Corps (approx. 1.000 ar-	
₽ -₽	Tank Corps (approx. 1,000 armored vehicles)	5,000
	Fortress Troops	
/	15 Regiments, and area defense	
_%	15 Regiments, and area defense force	15,000
	Total	390,000
b. Reser	ve and Territorial Force.	
Compositio	n unknown	;

1st Army Hq. 1s at Vladivostok; 2d Army Hq at

NAVY

18 Destroyers 90 Submarines

80 Coastal motor boats

Amur River Flotilla--

32 Gunboats

75 Armed motor boats Personnel (est) 4,500

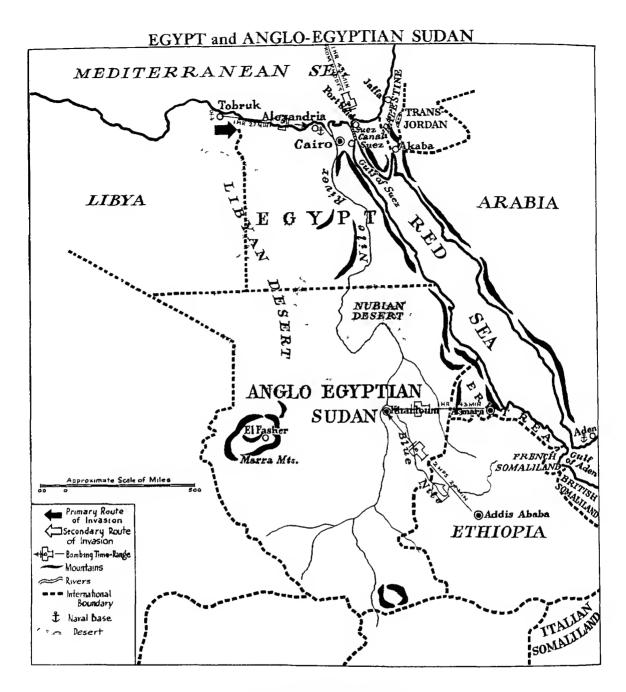
AIR ARMY

Approximately 1/3 of total Air Army strength q. v.

> Note-Air forces not being dependent upon rail or motor roads, reinforcement from bases west of the Ural Mountains depends only upon necessities of the moment.

Study of the adjoining map shows the network of motor, rail and river communications being built up north of the Sino-Mongolian border to support defense of Siberia, particularly the so-called Maritime Provinces (Eastern Siberia), against Japanese invasion. Far East naval bases are Vladivostok and Komsomolsk, with auxiliary bases at Nikolaevesk, Okhotsk, Petroplavosk on Kamchatka, and Possiet Bay. Principal Far East air bases are Chita, Blagoveschensk, Khabarovsk and Komsomolsk.

In any struggle between Japan and the U.S.S.R. it would be imperative for the former to destroy Russian bases at Vladivostok, Possiet Bay and Okhotsk, prior to large transport movements in the Sea of Japan, because of danger of submarine and aerial attack.



BOMBING TIME RANGE TABLE

Egypt and the Anglo-Egyptian Sudan are open to attack from Libya, Italian East Africa, Italian Mediterranean bases, Turkey, and from carrier-based and seaplane aviation on the Mediterranean and Red Seas

70	From	Approximate Mileage	Elapsed Time	To	From	Approximate Mileage	Elapsed Time
Port Said	Rhodes (It)	425	1 hr 42 min	Cano	Tobruk (It)	450	1 hr 48 min
	Tobruk (It)	490	1 hr 58 mm	Suez	*Nearest point on	Erı	
	Alexandretta (T)	430	1 hr 43 min		trean coast (It)	800	3 hr 12 min
Alexandria	Tobruk (It)	360	1 hr 27 min	Khartoum	Addis Ababa (It)	600	2 hr 24 mm.
	Rhodes (It)	365	1 hr 28 mm		Asmara (It)	430	1 hr 43 min
				'Feasibl	e by shuttling seaplan	es to tender,	working out of

Egypt and Anglo-Egyptian Sudan

The former, an independent kingdom, under alliance with and its defense guaranteed by Great Britain; and the latter, claimed by Egypt and governed by a Governor General appointed by Egypt (with British approval), its defense also guaranteed by Britain, must be considered as an entity for military purposes. The Suez Canal, of which Company the British Government holds nearly one half of the shares, lies in Egyptian territory. The Canal, by the Convention of Constantinople, 1888, signatories Britain, France, Germany, Austro-Hungary, Italy, Netherlands, Russia, Spain and Turkey, is theoretically open to all nations and free from blockade. During the World War it was an integral part of Allied terrain, German operations were directed against it, and Britain closed it for a period in 1915. War vessels pay toll to traverse it just the same as civilian vessels Its possession will be a moot point in any future major warfare, since it is one of the vital elements of British communications to the East, and essential to Italy's communication with her East African possessions. British control in wartime is assured by the bases of Port Said on the Mediterranean and Aden on the Red Sea and by control of both banks. The British treaty with Egypt limits normal British military strength to 10,000 men and 400 airplanes, and the possession of Alexandria and Port Said as naval bases.

ARMY

- a. Regular Army.
- (1) British troops (included in total of Great Britain, q. v.)

\boxtimes	2 Brigades (4 battalions each)	
\sim	1 Cavalry Brigade	10.000
إمما	Fortress Troops (including artillery, antiaircraft, engineers, etc.)	10,000

(2) Egyp	otian Army (British trained).	
\times	3 Brigades	
2	2 Squadrons of Cavalry	
- 72_	14 Armored Car Groups	20,000
€-7	3 Brigades 2 Squadrons of Cavalry 14 Armored Car Groups Elements of other arms in training	

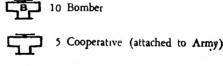
(3) Sudan Defense Force (British officers, native troops).

1 Brigade, mixed, cavalry camel

corps, infantry	5,000
Total strength	35,000
b. Reserves (Egyptian)	
Trained but unorganized in units	80,000
Potential War Strength	115,000

AIR ARMY

a. British Royal Air Force (q. v.). Elements of the Mediterranean Air Command; strength fluctuates in accordance with situation. Basic approximation—Squadrons—



b. Egyptian Air Force. In process of formation.

FRENCH - SPANISH NORTH AFRICA Azores (Portugal) **c**agliari SPAIN SEA Casabland Madeira Is. (Portugal) enetration restricted to a fifty mile front by Salt Lake area. LIBYA (It)Viljá Cisperos WEST AFRICA Dak SENEGAL Primary Route
of Invasion Isecondary Route of Invasion - Bombing Time-Range Mountains Rivers 🖍 - International Boundary 1 Naval Base Approximate Scale of Miles -Sea Lane

BOMBING TIME-RANGE TABLE

The entire French North African area is open to aerial attack from Spain, Spanish Morocco and the Spanish colonies of Rio de Oro and Ifni; from Italy and Italian North Africa, and from the Canary Islands. The Balearies provide operating bases against maritime routes between France and Africa in the Mediterranean; the Azores and Canaries dominate the Atlantic routes. Shuttling operations are feasible between all these potential hostile air bases.

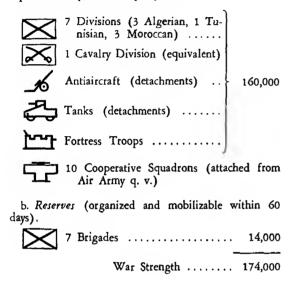
To	From	Approxima Mileage			Approximate Mileage	Elapsed Time
Marrakech Oran	Canaries (Sp) Cadiz (Sp) Ifini (Sp) Villa Cisneros Tetuan (Sp) Ifini (Sp) Cartagena (Sp. Cartagena (Sp. Majorca (Sp.) Cagliari (It.)	230 . 390 (Sp) 870 . 200 200) 150) . 225 200	48 min 36 min.	Philippeville Cagliari (It) Bizerta Cagliari (It.) Tunis Marsala (It.) Sousse Pantelleria (It. Constantine Cagliari (It.) Sfax Tripoli (It.) For: Saint Tripoli (It.) Dianet Ubari (It.) *Feasible if shutiling beta Ifni, Spanish Morocco or S		35 min. 39 min. 22 min. 1 hr 00 min. 46 min. hr 05 min. 1 hr. 03 min.

French North Africa

Algeria and Tunisia are French Colonies, practically a part of the mother country; Morocco (less the little strip of Spanish Morocco—see map) is a French protectorate. This entire area is considered as a military entity, part of France's Metropolitan forces, being the 19th Region of the Army, the 5th Region of the Army.

ARMY

a. Regular Army (included in global totals of Metropolitan Army, France, q. v.).



c. Territorial Reserve. Includes forces of the Moroccan Empire and tribal irregular units in Morocco, Algeria and Tunisia, of which probably 20,000 could be put in the field where needed as local partisan forces at once 100,000

Potential War Strength ... 274,000

d. Potential unorganized reserve, 600,000, not to be considered effective other than as replacement reservoir for native units in the Metropolitan Army.

NAVY (See France)

AIR ARMY (Part of Metropolitan Air Army, France, q. v.)
Squadrons—

5	10	Bomber
F	10	Fighter
50	10	Cooperative (attached to Army)

Note—France's North African forces are organized on an essentially mobile footing, for use either in continental France or in Africa as need may be. Included in the regular units listed above is France's famous Foreign Legion, four regiments of infantry, one regiment of cavalry and one squadron of armored cars (the remaining Legion infantry regiment is in French Indo-China q. v.).

Spanish North Africa

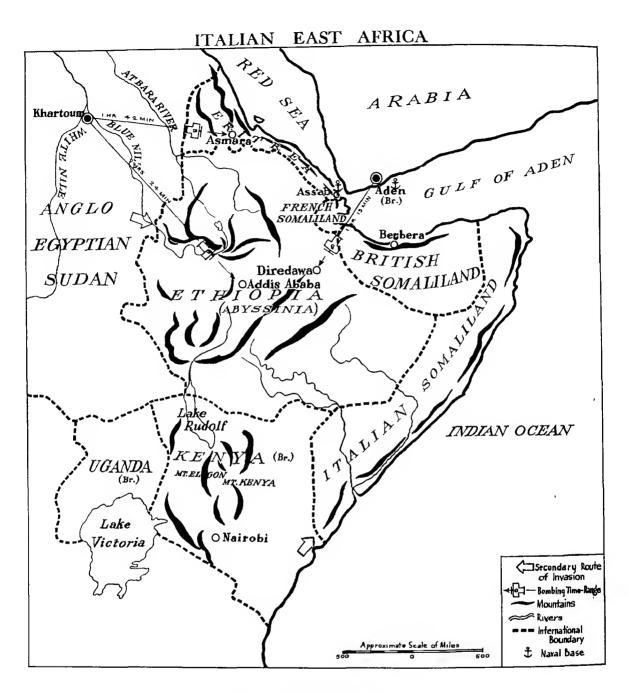
Herein are included Spanish Morocco, a protectorate; and the colonies of Rio de Oro and Ifni. The two last-named are negligible so far as defensive forces are concerned. The former, original base of Franco's expedition into Spain, is a definite military entity worthy of consideration. Present strength of its basic military

forces is not known. It may furnish a base for operations against French North Africa, though with the handicaps of being completely dominated by air and its inability to furnish either sustenence or material for an expeditionary force, which would have to depend upon Mediterranean maritime routes for supply.

BOMBING TIME-RANGE TABLE

Approximate						Approximate		
To	From	Mileage	Elapsed Time	To	From	Mileag	e Elapsed Time	
Tetuan Melilla Xauen	sh Morocco . Gibraltar (Br.) . Fez (Fr.) Fez (Fr.) Tlemcen (Fr.) Fez (Fr.) Fez (Fr.)	130 - 100 . 90 .	32 min. 24 min. 22 min. 18 min.	b. Ifni.	. Marrakech le Oro. Agadir (F		48 min.	

*Probable only by flying boats or seaplanes operating from St. Louis in Franch West Africa.



BOMBING TIME-RANGE TABLE

To	From	Approximate Mileage	Elapsed Time
Addis	Khartoum (Br.)	430	1 hr. 43 min
Ababa	Aden (Br.)	. 435	1 hr. 45 min.
	* Khartoum_(Br.)	600	2 hr. 24 min
	Berbera (Br.)	430	1 hr. 42 min
Dierdaw	a Aden (Br.)	310	. 1 hr. 15 min.
*Feas.	ible by shuttling beta r British Somaliland.		

Italian East Africa

Consists of Eritria, Ethiopia and Italian Somaliland, militarily grouped under one command.

ARMY

a Metropolitan (but not included in Italian totals, $q \cdot v$).

1 Division (Savoia Grenadiers) completely motorized	12,000
13 Black Shirt Battalions	13,000
5 Groups Field Artillery (4 motorized)	
4 Groups Antiaircraft	2,000

b Native.

17 Brigades of 4 battalions each	68,000
6 Groups (squadrons) Cavalry	3,000
Total War Strength	100,500

*Native troops at present time not entirely reliable.



BOMBING TIME-RANGE TABLE

Libya is open to aerial attack from French North Africa, Egypt, Malta and from carrier-based and seaplane aviation in the κ Mediterranean Sea.

To	Fram	Approxim Milese	ate e Elapsed Time
_			-
Tripoli	Bizerta (Fr.) .	360	1 hr. 27 min.
•	Ben Gardane (Fi		28 min.
	Malta (Br.)	225	54 min.
Sirte .	* Bizerta (Fr.)	575	2 hr. 18 min
	Malta , (Br.)	360	1 hr. 27 min.
Tobruk	Siwa (Br.) .	225	54 min.
	*Cyprus (Br.) .	550	2 hr. 12 min.
	Matruh (Br).	210	51 min.
	bably by seaplane, shu g so shore bas <mark>es</mark> .	tling to tena	ler, or from carrier

Libya

Italian colony in North Africa. Terrain is fertile for short distance only from coast; the remainder of the country desert. Libya cannot support the military forces present; all supply—in some parts even water—must be transported from Italy. Excellent road system parallels the shore.

An indefinite number of Black Shirt brigades, apparently relieved for training; probably not more than 2 present at any one time, approximately

10,000

Approximate War Strength 109,500

ARMY

a. Metropolitan units.



2 Antiaircraft mobile groups ...

b. Colonial (natives and Italian subjects resident in Libya).

4 Divisions (equivalent), approximately	40,000
1 Cavalry Division (motorized and horse)	5,000
Tank Detachments	2,000
Fortress Troops	10,000

NAVY (See Italy)

AIR ARMY

A part of Metropolitan Air Army, Italy, q. v. The Libyan strength is constantly fluctuating in accordance with the situation—home-land bases being within comparatively easy flying range. Tripoli, for instance, is but 360 flying miles from Palermo. It may be taken for granted that the effective air strength is never less than—

Squadrons-

2,500

SE

12 Bomber

SF.

14 Fighter

5

10 Cooperative (attached to Army)



BOMBING TIME-RANGE TABLE

South Africa is partly open to aerial attack from Angola and Mozambique, and from carrier-based and seaplane aviation on the Atlantic and Indian Oceans.

To	From	Mileage	Elapsed Time
Pretoria Durban	Lourenco Marquez Lourenco Marquez	;	1 hr. 10 min.

Union of South Africa

One of the components of the British Commonwealth of Nations. It includes Natal, Cape of Good Hope, and the former Transvaal and Orange Free State.

ARMY

a. Militia, with professional cadres.

3 Brigades		
6 Cavalry Regiments	Peace Strength War Strength	1,000 20,000
2 Armored Trains		

b. Reserves-

Trained	manpower,	unorganized,	
approx	imately		140,000

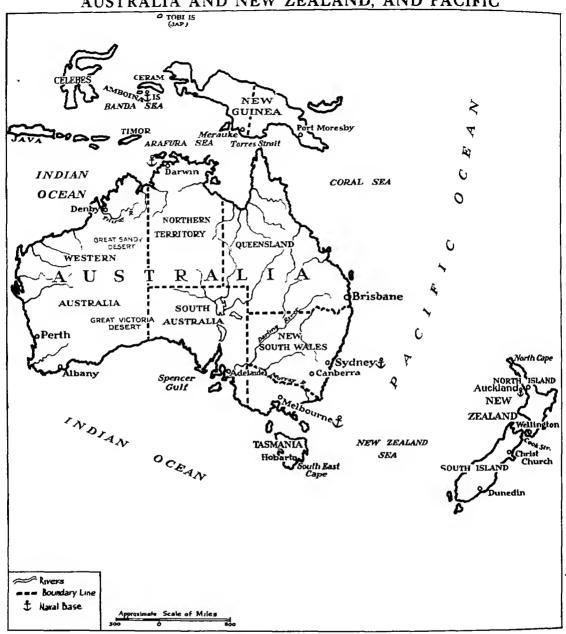
c. The following British African elements, while not included in Union of South Africa, must be considered as part of the Empire defense forces:—

- (1) King's African Rifles (East Africa)—
 4 Battalions, war strength, approx. . . . 4,500
- (2) Royal West African Defense Force—
 1 Brigade (mixed), war strength, approx. 7,000

NAVY (See British Navy)

AIR ARMY (See British Royal Air Force)

AUSTRALIA AND NEW ZEALAND, AND PACIFIC



BOMBING TIME-RANGE TABLE

These countries are theoretically open to attack from Japanese mandated islands and from Dutch East Indies. Distances are enormous. The most definite potential aerial threat would be from carrier-based or long-range seaplane aviation, utilizing extensions are the overland selected. porized bases in the outlying islands.

To	From	Approximate Mileage	Elapsed Time
Port Dar-	Tobi, Caroline Is		
	(Jap)	1,100	4 hr 24 mm
	Amboina (Neth)	700	2 հ։ 48 m։ո
	Timor (Port.)	430	1 hr. 48 min.

Australia and New Zealand, and Pacific

) n....

The area includes Australia, New Zealand, British New Guinea (part of Australia) and the wide-spread island groups of Melanesia and those islands stretching eastward across the Pacific (excepting Japanese mandated islands and the French Taumoto group).

ARMY

a. Regular Army (Volunteer militia with professional cadres).

(1) Australia.

4 Divisions and 3 mixed brigades	Strength
	1,500
2 Cavalry Divisions	War Strength 31,500
	Strength
Fortress Troops	31,500

(2) New Zealand.

1 Division	Peace Strength
3 Cavalry Brigades	War Strength 5,600
Fortress Troops) 5,600

Total War Strength,
permanent force ... 37,100

 NAVY (Included in totals of Navy, Great Britain, q. v.)

2 Heavy Cruisers (Australian)

3 Light Cruisers (1 Australian, 2 loaned to New Zealand)

5 Destroyers (Australian)

2 Sloops (Australian)

1 Aircraft Tender (Australian)

Personnel— Australian ...

 Australian
 9,200

 New Zealand
 1,200

 Total
 10,400

AIR ARMY

a. Australia (Royal Australian Air Force)

Squadrons-

- 4 Mixed (fighter and bomber) ... Approx. 60
- 3 Reserve (Citizens' Air Force) .. Joperating ships
 - b. New Zealand (Royal New Zealand Air Force) In process of organization.
 - c. Royal Air Force (Great Britain, q. v.).

Detachments of Fleet Air Atm, including patrol planes (long range flying boats), and of Far Eastern Air Command.



BOMBING TIME RANGE TABLE

Canada is initially open to aerial attack from carrier-based or seaplane aviation only, except for possibility of hostile advince base seized by an enemy, or from the U S in counter attack against such thrust

To.	From	Approximate Mileage	Elapsed Time
Halifax	Battle Harbor	700>	2 hr 48 mm
Quebec	Battle Harbor	8503	3 hr 24 min
Esquimalt	Sitka	920	3 hr 41 mu n
COC	OPFRATIVE REINHORGI	NG TIME FROM	US
Halif ix	Bingor Mc	260	Lhr 03 min
Bittle Hubo	rBmgor Mc	850+	3 hr 24 min
St Johns			
(N F)	Bingor, Me	820	3 hr 17 min
Vancouver	Ft Lewis, Wash	175	42 min
Winnepeg	Fargo, N D	225	54 min

reactible only by long range bombers or seaplanes

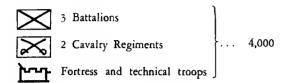
Canada

One of the Dominions of the British Commonwealth of Nations. Its forces are armed, equipped and trained in accordance with the remainder of the British Empire.

ARMY

(Militia with permanent cadres)

a. Permanent Active Militia.



b. Nonpermanent Active Militia.

\boxtimes	26 Brigades	48,000
\gtrsim	3 Cavalry Brigades	}

Total peace strength mobilizable in 14 days .. 52,000

c. Reserves.

Trained man power, to fill above units to war strength, mobilizable in 2 months . . 41,000

War strength 93,000

(Note-Canada has a potential man power of 800,000.)

NAVY

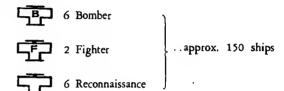
(Part of British Navy, q. v.)

4 Destroyers. Personnel, 1,091.

AIR ARMY

(Royal Canadian Air Corps)

Squadrons

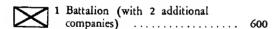


Alaska

Alaska, a territory of the United States, is separated from the mother country by the Dominion of Canada. Militarily it is a part of the 9th Corps Area.

ARMY

(Detachment of U. S. Regular Army)



Note—Expansion of the garrison, with objective the establishment of a naval and air base, is under consideration. The Aleutian Islands, jutting westward from Alaska, would thus become the northern flank of U S.Pacific naval defensive area, with the Hawaiian Islands its center, and the Panama Canal Zone its southern flank

BOMBING TIME-RANGE TABLE

Alaska is open to aerial attack from Siberia (U. S. S. R.), the northernmost islands of Japan, and British Columbia, and from carrier-based or seaplane aviation in the North Pacific Ocean.

To	From	Approximate Mileage	Elapsed Time
Dutch Harbor,			
Aleutian Is.	. Petropavlovsk	(Sib.)1200*	4 hr. 48 min.
	Uellen (Sib.)	900* 225	3 hr. 36 min.

To	From	Approximate Mileage	Elapsed Time
Attu Isl. (western- most of Aleutian			
group)	Paramushiro Jima (northernmost isla	and	
Dutch Harbor Sitka	of Japan) Attu Isl Dutch Harbor	750* 90 0 * . 1150*	3 hr. 36 min. . 4 hr. 36 min.
•	Esquimalt (Br. Co	ol.) 800*	3 hr. 12 min.

*Above distances, most of them not feasible as round trips, are given as examples of potential aerial stepping-stones in any hostile eastward move towards our Pacific coast.



BOMBING TIME RANGE TABLE

Mexico is open to aerial attack from Central America (in part), and from carrier based and seaplane aviation on the Pacific, Ocean, Gulf of Mexico and Caribbean Sea

Central America is open to aerial attack from Mexico (in part) and from carrier based and seaplane aviation as above

O	Fan 10 manuar		(m. part	,	miller pased and stapia		•
	Α	pproximate				Approximat	c
To	From	Mileage	Elapsed Time	Ιο	From	Mileage	Elapsed Time
a Mexic	0	_		Veri Cruz	Brownsville, Tex	470	1 hr 53 min
Mexico City	Magdalena Bay	860	3 hr 27 min	b Cents	ral America		
Vera Cruz	Guatemala City	475	1 hr 54 min	Guatemala			00
	Belize (Brit Hon)	520	2 hr 5 mın	City	San Salvador	115	28 mi n
Co operati	ive reinforcing time from	n US dror	nes	Managua			
Mexico City	Brownsville, Tex	460	1 hr 51 mın	(Nic)	San Jose (CostaR)	215	52 min
Magdalena				` ,	Coiba Is (Pan)	435	1 hr 45 min
Bay	San Diego, Calif	620*	2 hr 29 min	†San Juan			
Tampico	Brownsville, Tex	250	1 hr 00 min	del Sur			4 L 20 min
-				(Nic)	Coiba Is (Pan)	370	1 hr 29 min

BOMBING TIME-RANGE TABLE

To	From	Approximate Mileage	Elapsed Time	To	From	Approximate Mileage	Elapsed Time
†San Juan del Norte				Co-ope Managua	rative reinforcing ti	ime from U. S. dro	mes.
(Nic.) San Juan	, ·	.) 265	1 hr 4 min.	(Nic.) Coiba Isl.		460 .	1 hr. 51 min.
del Norte (Nic.)		Ion.) 525	. 2 hr. 6 min		. Colon (C. Z.)		
San Jose	•	•		* Feasi operation	ble only for very le s.	ong range bombers	or by shuttling
(Costan.)	Galapagos is.	(Ec.) 950* .	. 3 hr. 48 min.	† Resp	ectively Pacific an an Canal	d Atlantic termin	of proposed

Mexico

Army and Navy are jointly under control of Secretariat of National Defense.

ARMY

a. Regular Army.

\geq	50 Battalions	
\gtrsim	40 Cavalry Regiments	Peace strength
_16	1 Antiaircraft Artillery Battery	Peace strength 56,000 War strength 150,000
<i>≫</i>	2 Field Artillery Regi- ments	b

b. Air Corps (component of Army).

6 Squadrons, all typesapprox. 100	ships
Personnel:—(included in figures above) Military Pilots Other ranks	200 500
Total	700

c. Reserves.

While the nation contains a large number of men who have seen military service of some sort or other, no organized reserve force exists. Potential man power, approx. 1,500,000.

d. National Guard.

Service is nominally obligatory, but in fact the force exists in almost negligible strength—approx. 5,000.

NAVY

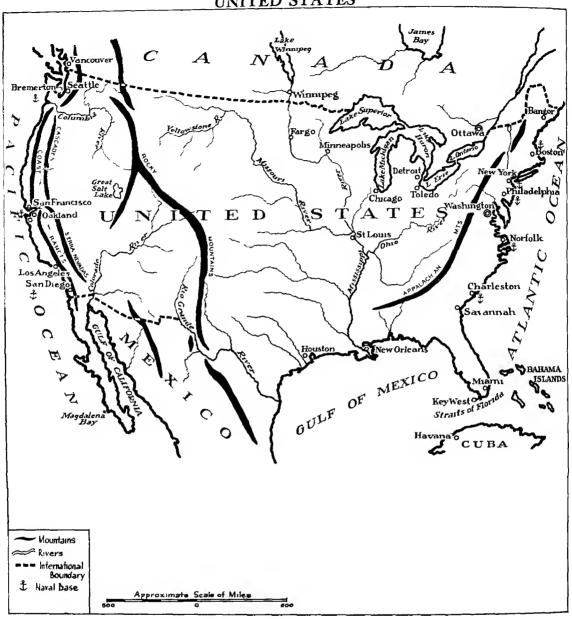
Negligible.

Central America

The nations of this area are too weak militarily for any detailed consideration of their armed strength. The terrain involved, however, is essential to any study of military geography relating to hemisphere defense. The countries involved—Guatemala, Honduras, Salvador, Nicaragua, Costa Rica and Panama, and the colony

of British Honduras, offer potential advance bases for powerful expeditionary forces threatening Mexico and the United States, the Panama Canal, the Caribbean area, and South America. The United States is particularly interested in a possible Nicaraguan Canal.

UNITED STATES



BOMBING TIME RANGE TABLE

The continental United States is open to aerial attack primarily only from carrier based aviation on the Atlantic and Pacific Oceans. It is potentially open to attack from bases which might be seized by an aggressor nation within the boundaries of her neighbors on the north and south

To	From	Approximate Mileage	Elapsed Time
San Diego	Magdalena Bay (Me	x) 600*	2 hr 24 min
Seattle	Queen Charlotte Isla	ınd	
	(Br Col)	460	1 hr 51 min
New York	Cape Sable (N S)	540	2 hr 10 min
	Bermuda (Br)	800**	3 hr 12 min
*Feasible fornia	by seaplane shuttling	uithin the	Gulf of Calı
**Feasible	e by 1ery long range be lers	ombers or by	seaplanes shut

United States

Army and Navy are separate entities; each having an Air Corps as component. The nation is now strengthening its defensive forces, with the objective of a future economical, balanced position in readiness, as follows:

a. Outpost line for security and the protection of initial defense forces; elements manning it, both ground and air, to be prepared for immediate action. Panama Canal Zone and Hawaii, properly strengthened, and the proposed installations in Puerto Rico and Alaska constitute this general line.

b. Main position. Elements manning it consist of the Initial Protective Force—composed of the Regular Army (less forces on outpost duty), all the Federalized National Guard and certain Reserves assigned in emer-

gency.

The continental United States is divided territorially into nine corps areas, providing personnel for four field armies. Additional territorial military areas are the Hawaiian, Philippine, Panama Canal and Caribbean Departments, the three last-named being treated separately elsewhere Alaska, q.v., is part of the 9th Corps Area.

Figures given below are approximate only, since at the present time both branches of the service are in process of reorganization and expansion, particularly the air components

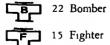
ARMY

a. Regular Army (professional volunteer)(1) Ground Troops (less overseas garrisons)

4 Divisions (incomplete in part) and 5 Brigades	68,500
1 Cavalry Division	4,800
1 Mechanized Brigade (Cavalry)	2,200
4 Antiaircraft Regiments (mobile)	3,200
Fortress Troops (coast artillery fixed and mobile, antiaircraft, etc.)	5,800
Service Command (depots, schools, supply, technical, etc.)	31,000
*Total, continental United States	115,500

(2)	Overseas Garrisons	(all arms)) 44,000
(3)	*Air Corps (includin	g overseas	detachments) —

Squadrons-



10 Reconnaissance
13 Observation
Total 1st line operating combat planes
Personnel— Military Pilots: Regular Army
Total Regular Army 182,000 b. National Guard.
18 Divisions (incomplete in part)
Fortress Troops (coast artillery fixed and mobile, antiaircraft, etc.)
Air Corps—
19 Observation Squadrons (approx. 185 ships)
Personnel (included in totals) —
. Military Pilots 300 Other ranks 1,700
Total
Total Regular Army and National Guard 353,000 c. Reserves.
(1) Regular Army Reserve (reservoir for filling regular units to war strength), approx
Total Trained Manpower 453,000
(3) A Reserve Officers' Training Corps (reservoir for the Officers' Reserve Corps) and Citizens' Military Training Camps

(potential reservoir for NCO grades in National Army) also exist.

In analyzing the above tabulations for comparison with armies of other Powers the pertinent elements of immediate combat strength within the continental limits are those starred () Note also that the Service Command must be excluded from actual combat consideration, it is the essential "house-keeping" machinery of the Army

NAVY

15 Battleships 19 Heavy Cruisers 10 Light Cruisers 211 Destroyers 84 Submarines

- 6 Aircraft Carriers
- 1 Aircraft Tender (for patrol planes) 23 Sloops (including Coast Guard
- cutters) 6 Minelayers

Personnel-

Active (including Marine Corps and Coast Guard*), approx. . . . 141,000 Reserve, approx. Total, approx. 194,000

Air Corps-Squadrons-

> 39 Bomber (all types, including patrol planes)

7 Fighter

3 Observation

Catapulted aircraft aboard fighting ships (scouting and spotting)

Naval Districts

Total 1st line operating combat planes (approx) 1,100 ships

Utility (schools, training, cargo, 400 ships etc.), approx. Naval Pilots (approx.), 3,500 (including active and

reserve; included in totals above). *Coast Guard in peace time is under Treasury Department, but in war time becomes a component of the

Hawaii

Navy.

The Hawaiian Department is maintained to ensure defense of the Hawaiian Islands-and particularly the island of Oahu—as a great naval base, pivot of U.S. naval defense area on the Pacific.

ARMY

a U. S Regular Army (not included in continental totals)

1 Division



1 Antiaircraft Regiment (mo-

Fortress Troops (coast artillery fixed and mobile, technical, etc.)

21,000

Elements of U. S. Army Air Corps q. v. 2 Regiments (National Guard; not included 2,000 in continental totals) Total approximate strength 23,000

Caribbean Area

Canal Zone

The Panama Canal Department is one of the integral territorial subdivisions of the U. S. Army. It exists to protect the Panama Canal, which is the vital by-pass by which its battle fleet may be easily shifted from Pacific to Atlantic or vice versa. Were it not for the Panama Canal the United States could not adequately ensure its naval protection without a two-ocean navy—that is, by doubling its present strength

in battleships and all the other necessary components to maintain a fleet in being, which is the essence of sea power, in each ocean. The Panama Canal is an outstanding example of the suppression of a natural barrier to facilitate defense, as mentioned in the introduction. Without the canal United States vessels must take the long sea lane around Cape Horn to move from one ocean to the other.

ARMY

U. S. Regular Army (not included in totals of U. S. q. v.)



1 Brigade, reinforced (incl. 1 regt. F. A.)



Fortress troops (coast artillery, fixed antiaircraft, technical, etc.)



1 Antiaircraft battalion (mobile)

Air Corps-

Elements of U. S Army Air Corps q. v.

Note—Strength as given above is to be increased in the near future.

Approximate strength 12,000

Puerto Rico

The newly established Caribbean Department will be based on Puerto Rico. Existing forces are—

ARMY

a. U. S. Regular Army (not included in totals of U. S. q. v.)



1 Regiment approx. 1,000

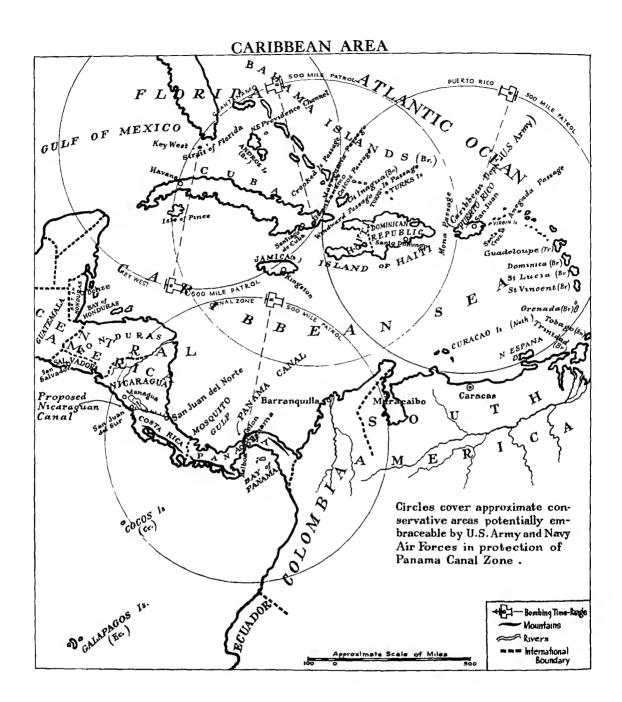
b. National Guard



2 Regiments approx. 2,000

.

Note—When this department is completely organized it will contain sufficient elements of all arms to protect a naval base, also being organized at the present time, sealing the Caribbean and constituting the advance protection to the Atlantic side of the Panama Canal.



Cuba

Armed forces are under control of National Defense Department. Military service is compulsory by law, but in fact is voluntary.

NAVY

2 Light Cruisers (rehabilitated 1937)

9 Gunboats (old)

Personnel 2,200

ARMY

a. Regular Army.

4 Battalions

6 Cavalry Squadrons

1 Field Artillery Battery

Fortress troops (including coast artillery, etc.)

2 Squadrons, all types

b. Rural Guard—national constabulary ... 6,000

Total ... 14,000

Haiti

Defense forces negligible.

Dominican Republic

Defense forces negligible.

Foreign Possessions

Garrisons of foreign possessions in the Caribbean area are negligible Geographically, however, as will be seen on the map, these possessions offer potential

advance bases which, in the hands of an aggressor nation, might become stepping-stones for thrusts at the Panama Canal.



South America

The so-called A B C nations-Argentina, Brazil and Chile-are the most important national entities.

Argentina

Army and Navy are separate entities, with Air Corps component in each. The nation is divided into NAVY* 2 Battleships (plus 4 old coast desix military areas. fense vessels) ARMY 2 Heavy Cruisers (Conscript with professional cadres) 1 Light Cruiser a. Regular Army. 10 Destroyers 6 Divisions (skéletonized) 24,000 3 Submarines 4 Cavalry Brigades 10 Mine-sweepers 1 Antiaircraft Arty. Battalion 6 Squadrons-Fortress troops (including engineers, technical, etc.) 16,000 3 Fighter 8 Squadrons-all types..120 ships* 1 Observation approx. 2nd Line planes (training and 1 Light Bomber Total 420 ships Military Pilots 1 Patrol Plane Other ranks 1,800 Coast Artillery 2,000 Naval personnel 15,000 Total 48,100 Naval personnel reserve .. 100,000 b. Reserves ** 5 Divisions, furnished from-* Best South American Navy. ** See note under Army Air Corps. Gendarmerie 3,000 Regular Army reserve 5,000 National Guard150,000 233,000 Total War strength 281,100 * Best air force in South America. ** Note—This reserve also furnishes sufficient strength to put regular army units on war footing.

50 ships **

Bolivia

D 01	1 1 10
ARMY	NAVY
(Conscript with professional cadres)	None.
a. Regular Army.	
6 Divisions (including 1 cavalry regiment each)	
Units are skeletonized to peace strength total of	
Reserves exist on paper to fill above to a war strength of approx 70,000	
b. Air Corps—negligible.	
Bra	azil
Army and Navy are separate entities; Air Corps is component of each. The nation is divided into nine military areas.	NAVY 2 Battleships
ARMY	2 Light Cruisers
(Conscript with professional cadres)	8 Destroyers (plus 5 obsolete)
a. Regular Army.	3 Submarines (plus 1 obsolete)
5 Divisions and 1 mixed brigade41,000	
3 Cavalry Divisions 9,000	Several smaller vessels. Personnel—
	Active 14,000
Fortress troops (including coast artillery, technical, etc.)10,000	Total
Total peace strength60,000	10tai 29,000
B 12 Squadrons, all types (includes Naval)214 ships	
1 Antiaircraft Arty. Group, prepared for wartime expansion to 3 regiments (included in Army above).	
b. Reserves. (1) Organized (mobilizable in M + 60, to expand above forces)	
Total Regular Army war strength221,000	
(2) State forces (militia)	
Active	
National War strength 285,000	
Potential man power, additional but untrained	

Chile

Army, Navy and Air Army are separate entities.	NAVY
ARMY	1 Battleship
(Conscript with professional cadres)	8 Destroyers
a. Regular Army.	10 Submarines
4 Divisions (skeletonized)	Various obsolescent vessels.
1 Cavalry Division	Naval personnel 6,500
Fortress troops (except coast artillery)	Coast Artillery (part of Navy) 1,200
Carabineros (national constabulary—17,000)	Total
Peace strength 37,000 War strength 196,000	
AIR ARMY	
9½ Squadrons, all types, including 2 squadrons of flying boats, 1 of amphibians approx 100 ships.	
Military Pilots 160 Other ranks 1,200 Reserves 800	
Antiaircraft defense is a responsibility of Air Army.	

Colombia

NAVY

Army and Navy are under a single command. The nation is divided into six military zones.

ARMY

(Conscript with professional cadres)

a. Regular Army.

6 Brigades (reinforced with Cav. and F. A. units)

A. units)

O ships of all classes

Peace strength
...... 16,000
War strength
...... 30,000

2 Destroyers

4 Gunboats (3 river boats)

Several smaller vessels.

Note-Colombian Army is now in process of reorganization.

Ecuador

ARMY

(Conscript with professional cadres)

a Regular Army.

4 Brigades
Peace strength 7,500
War strength 48,000

b. Reserves.

Sufficient on paper to fill above to war strength. c Air Corps—negligible.

NAVY

1 Cruiser.

Note—Situation of the capital, Quito, in an Andean valley 9,500 feet above sea level, is a difficult one for any hostile bomber.

Paraguay

Army and Navy are separate entities. While the force detailed below is small, it must be remembered that Paraguay has but lately concluded a successful war with Bolivia, and that its trained man-power is high in proportion to its population. It is estimated that the regular army units listed below could be expanded by M + 30 to four divisions.

ARMY

(Conscript with professional cadres)

a Regular Army

4 Regiments

1 Cavalry Regiment

2 Field Artillery Groups

b. Reserves			• • • • •	approx.	94,000
War stren	gth				97,000
c. Air Corps	negli	gible.			

NAVY

2 gunboats, 2 tugs. Negligible.

Peru

Peace strength

Army and Navy are separate entities, with Air Corps a component of the former.

ARMY (Conscript with professional cadres)

a Regular Army.

6 Divisions (skeletonized)

1 Cavalry Regiment

1 Antiaircraft Arty. Battery

6 Squadrons-

1 Reconnaissance
Approx. 80 ships
5 Training

Peace strength 12,000
b. Republican Guard 1,000
c. Civic Guard 3,500
Total Peace strength 16,500
d. Reserves.
Supposedly sufficient trained to fill above units to war strength, approx100,000.
NAVY
2 Light Cruisers
2 Destroyers
4 Submarines
Some smaller vessels.
These vessels are all obsolete. Naval personnel

Uruguay

Army and Navy are controlled by Ministry of National Defense. The nation is divided into four military zones.

NAVY Negli**gible**,

ARMY

(Volunteer professional)

a. Regular Army.

 \boxtimes

4 Divisions

>

2 Cavalry Brigades

Air Corps-negligible

Peace strength, skeletonized 8,000

b. Reserves.

In time of war military service is compulsory. Time necessary to fill above cadres to war strength is problematical.

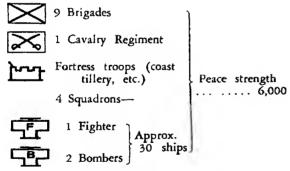
Venezuela

ARMY
(Conscript with professional cadres)

a. Regular Army.

NAVY

5 gunboats—negligible.



b. Reserves.

